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EXPERIENCE **CLAT & AILET**
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**Vidhigya India Open Mock 5
CLAT 2024***Question Paper with Answers & Explanations***Section A-English****Passage-I**

A slowing population growth coupled with a steady increase in the ageing population is contributing to the deceleration of China's economic growth, thereby impacting its journey to become the number one economy in the world, Asian Institute for China and IOR Studies (AICIS) reported.

As per recent data released by the China Power Project at the Centre for Strategic and International Studies, China's population has dwindled for the first time in several decades.

The country has for long, reaped the benefits of having a large, young workforce that significantly drove its emergence as a global industrial powerhouse. According to UN figures published earlier this year, India has now surpassed China in terms of its population and has bagged the label of the most populous nation in the world.

China's population control measures, which were prevalent between the late 1970s until the years 2013-2016, were in fact successful in reducing its huge population.

According to a CGTN report, this was followed by a dip in China's birth rate wherein the average household size fell from 3.1 to 2.6 persons between 2010 and 2020. These records become vital in understanding why there was no real growth in its population even after an alteration in government policies that encouraged childbirth.

This crisis has been accelerated by the COVID-19 pandemic. Its unpredictability has had an adverse mental impact which has made people decide against having children owing to the financial brunt that would follow.

As per AICIS, young Chinese born in and around the 2000s, currently in their early twenties, are not ready to have kids yet. The government is having a hard time trying to convince its young citizens to bear more children even as the latter do not feel the need or "responsibility" to produce more children just because the birth rate of their country is falling.

The fact that China is sitting on a "demographic time bomb" has, however, not created "any sense of urgency" among its young population even as the government is staying on full alert, according to AICIS.

China has seen a substantial surge in the number of people in the category of senior citizens. The increasing expenditure on pensions and the steadily increasing number of old-age homes are indicators of this reality.

As a result, many young couples are burdened with the healthcare and medical expenses of their parents and even some of the grandparents, in addition to their children.

Source: <https://www.aninews.in/news/world/asia/slowing-population-growth-increase-in-ageing-population-impact-chinas->

Section - A: English

1. What is the impact of China's population control measures on its economic growth, according to the given passage?

(a) The population control measures have been unsuccessful in reducing China's huge population, which has led to a decline in economic growth.

(b) The population control measures have led to an increase in China's population, which has accelerated the country's economic growth.

- (c) The population control measures have reduced China's population, which has contributed to the deceleration of its economic growth.
- (d) The population control measures have had no impact on China's population or economic growth.

Ans. c

Sol. Option (c) is correct. According to the given passage, China's population control measures were successful in reducing its huge population, which has had an impact on the country's economic growth. The passage states that a slowing population growth, coupled with a steady increase in the ageing population, is contributing to the deceleration of China's economic growth, thereby impacting its journey to become the number one economy in the world. The passage also mentions that China has long reaped the benefits of having a large, young workforce that significantly drove its emergence as a global industrial powerhouse. However, with the reduction in population growth, China's workforce is ageing, which could impact its economic growth. Therefore, option (c) correctly describes the impact of China's population control measures on its economic growth, while the other options are incorrect. Hence (c).

2. Which of the following rhetorical devices is used by the writer in the following sentence?

"As a result, many young couples are burdened with the healthcare and medical expenses of their parents and even some of the grandparents, in addition to their children."

- (a) Anaphora (b) Anticlimax (c) Chiasmus (d) Antithesis

Ans. c

Sol. The writer uses the rhetorical device of chiasmus in the given sentence. Chiasmus is a literary device in which words, phrases, or clauses are repeated in reverse order to create an inverted parallelism. In this sentence, the phrase "of their parents and even some of the grandparents" is repeated in reverse order as "in addition to their children." The sentence creates an inverted parallelism, with the structure of the sentence mirroring itself in reverse order. This is an example of chiasmus, which is a rhetorical device used to create emphasis or balance in a sentence. Therefore, option (c) is the correct answer, while the other options are incorrect.

3. Which is the contextual meaning of the word "deceleration" as used in the passage?

- (a) breaking (b) slowing (c) retardation (d) abating

Ans. b

Sol. The contextual clue that best helps us understand the meaning of the word "deceleration" in the given passage is the word "slowing." Option (a) breaking has multiple meanings but it is not used as decreasing here, hence incorrect. The word 'retardation' is to delay, or check, something that is not going in the speed as is expected. Hence (b).

4. Which of the following idiomatic expressions is the most appropriate one to describe the given text in the following sentence?

"The Chinese government has been grappling with the challenges posed by a rapidly ageing population and a shrinking workforce, which could have significant economic and social implications for the country in the future."

- (a) A bitter pill to swallow (b) A hard nut to crack
 (c) A shot in the dark (d) A thorn in one's side

Ans. b

Sol. Option (b) is correct. The most appropriate idiomatic expression to describe the given text in the sentence is "a hard nut to crack." It is used to describe a problem or situation that is difficult to solve or understand. The sentence describes the challenges posed by a rapidly ageing population and a shrinking workforce in China, which are complex issues that are difficult to address. The use of "a hard nut to crack" captures the sense of difficulty, complexity, and uncertainty associated with these challenges. Therefore, option (b) is the correct answer, while the other options are incorrect. Hence (b).

5. In the following sentence identify the author's underlying emotion which is also reflected in the above passage. "The global community must come together to address the urgent environmental crisis that threatens the future of our planet."

- (a) Alarm (b) Anger (c) Hope (d) Indifference

Ans. a

Sol. Option (a) is correct. The author's underlying emotion towards the given subject in the sentence is alarm (contextual meaning will not be surprise but as fear). The sentence describes the urgent environmental crisis that threatens the future of our planet, and emphasizes the need for the global community to come together to address it. The use of the word "urgent" and the phrase "threatens the future of our planet" suggests that the situation is dire and potentially catastrophic, which is likely to evoke fear and alarm in the author. Therefore, the author's underlying emotion towards the given subject is that of fear and alarm. Option (a) is the correct answer, while the other options are incorrect. Hence (a).

Section - B: Logical Reasoning

6. China : India :: ___ : ___

- (a) Decreasing population : Increasing population
 (b) Economic growth : Population control measures
 (c) Young workforce : Old-age homes
 (d) Global industrial powerhouse : Most populous nation

Ans. a

Sol. Option (a) is correct. The analogy establishes a relationship between China and India based on population. China's population is decreasing, while India's population is increasing, making option (a) the correct analogy.

7. COVID-19 pandemic : Demographic time bomb :: ___ : ___

- (a) Population control measures : Young population
 (b) Economic growth : Global industrial powerhouse
 (c) Unpredictability : Urgency
 (d) Decreasing population : Increasing expenditure on pensions

Ans. c

Sol. Option (c) is correct. The analogy establishes a relationship between the COVID-19 pandemic and a demographic time bomb based on unpredictability leading to urgency, making option (c) the correct analogy.

8. If China's birth rate declined by 20% from 2010 to 2020, and the average household size fell from 3.1 to 2.6 persons during the same period, what was the approximate percentage reduction in the number of children per household? (Assuming decline in birth rate was the only cause of decline in average household size)

- (a) 11% (b) 16% (c) 21% (d) 25%

Ans. b

Sol. Option (b) is correct. To find the percentage reduction in the number of children per household, we can compare the decline in the average household size: $3.1 - 2.6 = 0.5$. Then, the percentage reduction is $(0.5 / 3.1) * 100 \approx 16.13\%$, which can be approximated to 16%. Hence (b)

9. Assertion: China's population control measures were successful in reducing its huge population.

Reason: The average household size fell from 3.1 to 2.6 persons between 2010 and 2020.

(a) Both Assertion and Reason are true, and Reason is the correct solution of the Assertion.

(b) Both Assertion and Reason are true, but Reason is NOT the correct solution of the Assertion.

(c) Assertion is true, but Reason is false.

(d) Assertion is false, but Reason is true.

Ans. a

Sol. Option (a) is correct. The Assertion is that China's population control measures were successful in reducing its huge population, which is supported by the Reason that the average household size fell from 3.1 to 2.6 persons between 2010 and 2020, indicating a decline in the number of children per household. The Reason correctly explains why the Assertion is true. Hence (a).

10. Assumptions:

I. The declining birth rate in China is solely due to the COVID-19 pandemic's mental impact.

II. The Chinese government's efforts to convince young citizens to have more children have been unsuccessful.

Conclusion: China's population is facing a serious demographic time bomb.

(a) Both Assumptions I and II are implicit in the passage, and the Conclusion follows.

(b) Only Assumption I is implicit in the passage, and the Conclusion follows.

(c) Only Assumption II is implicit in the passage, and the Conclusion follows.

(d) Neither Assumptions I nor II are implicit in the passage, and the Conclusion does not follow.

Ans. c

Sol. Option (c) is correct. Assumption I is not explicitly mentioned in the passage, and the declining birth rate could be influenced by other factors as well. However, Assumption II is supported by the statement that the government is having a hard time convincing young citizens to bear more children. The Conclusion that China's population is facing a serious demographic time bomb is directly related to the declining birth rate, as mentioned in the passage. Hence (c).

11. Assumptions:

I. China's economic growth heavily relies on a large, young workforce.

II. The COVID-19 pandemic has primarily affected the mental state of young Chinese, leading to a decline in birth rates.

Conclusion: The number of people in the category of senior citizens in China is increasing rapidly.

- (a) Both Assumptions I and II are implicit in the passage, and the Conclusion follows.
- (b) Only Assumption I is implicit in the passage, and the Conclusion follows.
- (c) Only Assumption II is implicit in the passage, and the Conclusion follows.
- (d) Neither Assumptions I nor II is implicit in the passage, nor does the Conclusion not follow.

Ans. c

Sol. Option (c) is correct. Assumption I is not explicitly mentioned in the passage, and while China's large, young workforce has contributed to its economic growth, other factors may also be involved. However, Assumption II is supported by the statement that the COVID-19 pandemic has had an adverse mental impact on people, leading them to decide against having children. The Conclusion that the number of people in the category of senior citizens in China is increasing rapidly is directly mentioned in the passage, stating that there is a substantial surge in the number of senior citizens. Hence (c)

12. Compare the impact of the population control measures in China (prevalent between the late 1970s and 2013-2016) with the current population trends mentioned in the passage.

- (a) The population control measures successfully increased China's birth rate.
- (b) The current population trends have resulted in a significant surge in China's young workforce.
- (c) The population control measures reduced China's population size, whereas the current trends show a decline in birth rates.
- (d) The current population trends indicate a sudden increase in China's population size due to the removal of population control measures.

Ans. c

Sol. Option (c) is correct. The passage mentions that China's population control measures were successful in reducing its huge population, indicating that the measures led to a decline in population size. On the other hand, the current population trends show a decline in birth rates, which means fewer children are being born, leading to a potential decrease in population size over time. Thus, option (c) correctly compares the impact of the population control measures with the current population trends. Hence (c)

Passage-II

In the Olympic Games of 2023, a new event was introduced, known as the Lantern Relay. The Lantern Relay is an intriguing mixture of traditional relay racing and complex problem-solving, designed to test both the physical prowess and the quick-thinking abilities of the athletes. Teams from different nations participate, each team comprised of ten athletes, labeled A through J in the order they run. The race occurs in stages. Athlete A starts with the Lantern, a small, lightweight object, and has to complete a 400-meter track before handing off the Lantern to the next teammate. The twist, however, lies in the additional challenges placed at 100-meter intervals. These challenges range from solving puzzles to perform specific physical task and are designed to be completed as quickly as possible. If an athlete cannot complete a task within the allocated time limit, a penalty is incurred, which involves having to run an extra 100 meters before they can pass on the Lantern. The race continues until the Lantern is passed through all the team members and finally carried across the finish line by Athlete J. Furthermore, the Lantern has a special property: it can 'power up' the runner. When a runner solves a

problem successfully at the 100-meter intervals, the Lantern 'powers up,' providing a brief but substantial burst of speed to the runner.

In the 2023 Olympic Games, the race saw intense competition between three nations in particular: Atlantis, Byzantium, and Camelot. All were formidable teams with exceptional athletes, making the race a thrilling spectacle. Each team had its unique strategy, with Atlantis focusing on solving problems quickly, Byzantium banking on the superior athleticism of its team members, and Camelot employing a mixed strategy, aiming to maintain a balance between speed and problem-solving. The race progressed, filled with nail-biting moments, as the Lantern moved from hand to hand, team to team. There were moments of extraordinary prowess, as athletes sprinted to make up for lost time, and moments of intense concentration, as they tackled the tricky problems that lay in their path. There were successes and failures, overtakes and penalties, and throughout it all, the Lantern continued to glow, a beacon of hope and determination in the grand spectacle of the Olympic Games.

Section - A: English

13. What was the assumption about the Lantern Relay?

- (a) It was solely a physical contest.
- (b) It was purely an intellectual challenge.
- (c) It was a balance between athleticism and intellectual capability.
- (d) It did not have any extra challenges apart from running.

Ans. c

Sol. Option (c) is correct. The passage describes the Lantern Relay as an "intriguing mixture of traditional relay racing and complex problem-solving." This suggests that the event is designed to test both the physical prowess and the quick-thinking abilities of the athletes, thus indicating a balance between athleticism and intellectual capability. Option (a) is incorrect because the passage states that the Lantern Relay is not only a physical contest but also involves complex problem-solving tasks placed at 100-meter intervals, thus showing that it is more than just a physical contest. Option (b) is incorrect because, along with problem-solving, the race also tests the physical prowess of the athletes as they have to run a 400-meter track. Therefore, it is not purely an intellectual challenge. Option (d) is incorrect because the passage clearly mentions that there are additional challenges placed at 100-meter intervals, which can range from puzzles to specific physical tasks. Therefore, the race does have extra challenges apart from just running. Hence (c)

14. Which of the following sentences is the grammatically correct replacement of the underlined sentence?

- (a) These challenges range from solving puzzles to perform specific physical task and are designed to be completed as quickly as possible.
- (b) These challenges range from solving puzzles to performing specific physical task and are designed to be completed as quick as possible.
- (c) These challenges range from solving puzzles to perform specific physical tasks and is designed to be completed as quickly as possible.
- (d) These challenges range from solving puzzles to performing specific physical tasks and are designed to be completed as quickly as possible.

Ans. d

Sol. Option (d) is correct. The sentence should follow 'parallelism', therefore the word 'solving' should take the word 'performing' with it. Secondly the word 'task' should be

replaced by 'tasks'. Thirdly, the verb that follows should be 'are' as according to the Subject Verb agreement, the word 'challenges' is a plural one. The rest of the sentences do not follow all these points and are therefore incorrect. Hence (d).

15. Select the most appropriate option as a concluding remark for the given text.

- (a) Consequently, the Lantern Relay became the least popular event of the Olympics.
- (b) Thus, the Lantern Relay was an absolute disaster and a mistake to include in the Olympics.
- (c) Therefore, the Lantern Relay was a challenging and thrilling addition to the Olympic Games.
- (d) However, the Lantern Relay was unsuccessful in drawing spectators to the Games.

Ans. c

Sol. Option (c) is correct because the passage consistently paints the Lantern Relay as a challenging event that tested both physical and intellectual abilities of the athletes, thus making it thrilling. The narrative of the event's progression, successes, failures, and the intense competition aligns with this conclusion. Option (a) is incorrect because the passage does not provide any information to suggest that the Lantern Relay became the least popular event. It highlights the intense competition, which typically corresponds with popularity. Option (b) is incorrect because the text portrays the event as exciting and competitive, with no mention of it being a disaster or a mistake. Option (d) is incorrect because the passage does not indicate any lack of spectators or interest in the Lantern Relay. The description of the event as a "thrilling spectacle" implies that it was likely to attract audiences. Hence (c)

16. What does the word 'penalty' as used in the passage, mean?

- (a) A reward for finishing the task quickly.
- (b) An additional challenge to be completed by the athletes.
- (c) A reduction in the athlete's overall running distance.
- (d) An extra distance to be run as a consequence of not completing a task in time.

Ans. d

Sol. Option (d) is correct because the passage defines a penalty in the context of the Lantern Relay as having to run an extra 100 meters if an athlete cannot complete a task within the allocated time limit. This clearly means an extra distance to be run as a consequence of not completing a task in time. Option (a) is incorrect because 'penalty' typically refers to a disadvantage or a punitive measure rather than a reward. The passage also explicitly states that a penalty involves having to run an extra 100 meters, which is not a reward. Option (b) is incorrect because, while a penalty is an additional challenge, it isn't an inherent part of the competition but a consequence of not completing a task within the time limit. Option (c) is incorrect because a penalty in the Lantern Relay race involves running an extra 100 meters, which is an increase rather than a reduction in the overall running distance. Hence (d)

17. Which of the following categories best describes this piece of writing?

- (a) Autobiography (b) News Report (c) Sports Narrative (d) Fictional Story

Ans. c

Sol. Option (c) is correct because the passage offers a detailed narrative of the Lantern Relay event in the 2023 Olympic Games. It describes the rules, the strategies of different teams, the intense competition, and various moments in the race, which is characteristic

of a sports narrative. Option (a) is incorrect because the passage does not depict the life experiences or personal narrative of an individual, which is a central element in an autobiography. Instead, it provides an account of a sporting event. Option (b) is incorrect because, while the passage reports on the event of the 2023 Olympic Games, it does so in a detailed narrative style rather than the more objective and fact-focused style of a news report. Option (d) is incorrect because, despite the narrative style, the passage discusses a specific event in the 2023 Olympic Games. It does not introduce characters, plot, conflict, and resolution, which are typical components of a fictional story. Hence (c)

Section - B: Logical Reasoning

18. In the 2023 Olympic Games' Lantern Relay, the team from Atlantis focused on which strategy?

- (a) Quickly solving problems.
- (b) Superior athleticism of its team members.
- (c) Maintaining a balance between speed and problem-solving.
- (d) Intentionally incurring penalties to gain more speed.

Ans. a

Sol. Option (a) is correct because the passage states that "Each team had its unique strategy, with Atlantis focusing on solving problems quickly." Option (b) is incorrect because the passage states that it was the team from Byzantium, not Atlantis, which relied on the superior athleticism of its team members. Option (c) is incorrect because the passage states that it was the team from Camelot, not Atlantis, which aimed to maintain a balance between speed and problem-solving. Option (d) is incorrect because the passage does not mention any team intentionally incurring penalties to gain more speed. This is an inference not supported by the passage. Hence (a).

19. In the Lantern Relay among ten athletes (A,B,C,D,E,F,G,H,I, and J, who started in this order, i.e., A started 1st and J started 10th), D, E, and F made 2, 3, and 4 successful problem solves at the 100-meter intervals, respectively, which powered them up for a brief sprint. No one else made any successful problem solves. Assuming a successful problem solve results in an overtaking opportunity, what are the new respective positions of D, E, and F?

- (a) 4th, 3rd, and 2nd.
- (b) 3rd, 1st, and 2nd.
- (c) 3rd, 2nd, and 1st.
- (d) Cannot be determined.

Ans. a

Sol. Option (a) is correct because D moved two positions ahead from 4th to 2nd, E moved three positions ahead from 5th to 2nd (as E moved ahead of E, D is now in the 2nd position), and F moved four positions ahead from 6th to 2nd, but as F moved ahead of D and E, F is now in the 2nd position. Therefore, the new respective positions of D, E, and F are 4th, 3rd and 2nd. Hence (a)

20. The 'power up' feature of the Lantern, which is activated upon successful problem-solving at the 100-meter intervals, gives a substantial burst of speed to the runner. Considering the mechanism of the 'power up' feature, which of the following statements can be inferred?

- (a) Athletes can 'power up' the Lantern indefinitely, gaining infinite bursts of speed.
- (b) Athletes who solve problems more quickly gain longer-lasting 'power ups'.
- (c) The 'power up' feature can help an athlete make up for time lost while solving a problem.
- (d) Both (b) and (c).

Ans. c

Sol. Option (c) is correct because the passage suggests that the 'power up' provides a burst of speed, which could help an athlete make up for time lost while solving a problem. Option (a) is incorrect because the passage does not state that the 'power up' can be activated indefinitely. It mentions that the 'power up' is activated upon successful problem-solving at specific 100-meter intervals. Option (b) is incorrect because the passage states that the 'power up' provides a "brief but substantial burst of speed." It does not suggest that solving problems more quickly would result in longer-lasting 'power ups.' Option (d) is incorrect because, while Option (c) is correct, Option (b) is not. The passage does not suggest that solving problems more quickly results in longer-lasting 'power ups.' Hence (c)

21. Assume that an athlete enters into a 'power up' state if the speed gained from the 'power up' of the Lantern is greater than the speed lost while solving the problem. Further assume that all athletes in the race solve problems at roughly the same speed. An athlete from the team of Atlantis, therefore, _____?

- (a) Is in the 'power up' state at all times during the race.
- (b) Is not in the 'power up' state at any time during the race.
- (c) Is in the 'power up' state at some (but not all) times during the race.
- (d) Cannot be determined.

Ans. c

Sol. Option (c) is correct because the passage suggests that 'power up' state is achieved after solving problems at the 100-meter intervals. So, it is possible for an athlete to be in the 'power up' state at some, but not all, times during the race. Option (a) is incorrect because the passage states that the 'power up' is activated upon successful problem-solving at the 100-meter intervals. This means it's not possible for an athlete to be in the 'power up' state at all times during the race. Option (b) is incorrect because the passage indicates that Atlantis focused on solving problems quickly, and the 'power up' is activated upon successful problem-solving. This suggests that an athlete from Atlantis is likely to enter the 'power up' state at some point. Option (d) is incorrect because, based on the information provided in the passage, we can infer the situations under which an athlete may enter the 'power up' state. Hence (c)

22. Which among the following factors could have been the most critical for the team from Camelot to maintain their overall standing in the Lantern Relay, considering their strategy?

- (a) The complexity of problems at the 100-meter intervals.
- (b) The athleticism of their team members.
- (c) The speed of their 'power ups.'
- (d) The weather conditions during the race.

Ans. a

Sol. Option (a) is correct because the passage states that Camelot's strategy was to maintain a balance between speed and problem-solving. The complexity of problems at the 100-meter intervals would directly influence their ability to maintain this balance, thereby being the most critical factor. Option (b) is incorrect because the passage indicates that Camelot's strategy focused more on a balance between speed and problem-solving rather than relying heavily on the athleticism of its members. Option (c) is incorrect because, although the 'power ups' play a role in the overall strategy of the race, the passage does not mention them as a specific factor in Camelot's strategy.

Option (d) is incorrect because the passage does not mention weather conditions having any impact on the race or on Camelot's strategy. Hence (a)

23. Given the strategies of the different teams in the 2023 Olympic Games' Lantern Relay, what could be a likely disadvantage for the team from Atlantis?

- (a) The physical stamina of the athletes.
- (b) The ability to 'power up' the Lantern.
- (c) The difficulty level of the problems at the 100-meter intervals.
- (d) The average speed of the athletes on the team.

Ans. c

Sol. Option (c) is correct because the passage states that Atlantis' strategy is to solve problems quickly. If the problems at the 100-meter intervals are difficult, this could slow down the problem-solving process, potentially disrupting their strategy and resulting in a disadvantage. Option (a) is incorrect because the passage doesn't suggest that physical stamina would be a particular disadvantage for the team from Atlantis. Option (b) is incorrect because the passage indicates that the 'power up' feature is activated by solving problems, which is the strategy of the Atlantis team. Option (d) is incorrect because the passage does not indicate that the speed of the athletes would be a disadvantage for the Atlantis team. The 'power up' from solving problems would help boost their speed. Hence (c).

24. If the problem-solving pace at the 100-meter intervals in the Lantern Relay were to double (and all other things remain equal), the effective speed burst from the 'power up' would be Y times the normal speed burst. Y is

- (a) equal to 1
- (b) greater than 1
- (c) less than 1
- (d) Cannot be determined

Ans. c

Sol. Option (c) is correct because if the problem-solving pace is doubled, each 'power up' may be activated more frequently, but the duration of each speed burst might be shorter since they are described as "brief but substantial." Thus, the effective speed burst could be less than the normal speed burst. Option (a) is incorrect because if the problem-solving pace is doubled, the time to activate the 'power up' is likely to decrease, thereby affecting the duration of the speed burst. Option (b) is incorrect because, although the 'power up' is activated more frequently with the increase in problem-solving pace, the passage does not suggest that the actual speed burst from each 'power up' would increase. Thus, it would not necessarily be greater than 1. Option (d) is incorrect because, based on the information in the passage about the functioning of the 'power up' and problem-solving pace, we can infer the relationship between these two factors. Hence (c).

Passage-III

In the rural village of Tarbendale, the complex network of kinship was more than a matter of birth or marriage; it was the social glue that held the community together. At the heart of this intricate web of relations stood the family of James Anderson, an old man renowned for his wisdom and resilience. James had three children: Sophia, Albert, and Richard. Sophia, the eldest, was a gifted teacher who had two children, Samuel and Marianne. Samuel, a vivacious young man, married his childhood love, Linda. Together, they had three children: George, Isabelle, and Phoebe. George married Sarah and had two children, Freddy and Alice. Marianne, the quieter sibling, never married, but devoted

herself to serving the village as a nurse. Albert, James's second child, was an adventurer who traveled extensively before settling down with his wife, Elizabeth. Together, they had four children: Mark, Lucy, Olivia, and Ethan. Mark married Jasmine and they had two sons, Charlie and Daniel. Lucy, a renowned violinist, married a famous conductor named Benjamin, and they had one son, Edward. Olivia and Ethan remained single but shared a close bond with their nieces and nephews.

Richard, the youngest of James's children, was a skilled blacksmith. He married a talented baker, Mary, and they had one son, William. William, in turn, married Rose, and they had two daughters, Lily and Daisy. In Tarbendale, every resident could trace a connection to the Andersons. The village throbbed with stories about James and his descendants, each tale a thread in a vibrant tapestry of family, friendship, and love. Relationships crisscrossed and intersected, blending generations, careers, and personalities into a dynamic community bound by blood and mutual respect. When you sat in the cozy tea shop run by Mary, it was not uncommon to overhear lively conversations about the village's genealogy. While the older generation knew the relations by heart, the younger ones, especially Freddy and Alice, George's children, had recently developed a keen interest in understanding the complex family tree. The intricate relationships that their great-grandfather James had fostered were a source of fascination and pride for them. They took it upon themselves to learn the names, the relationships, and the interwoven stories of their kith and kin. After all, in Tarbendale, knowing one's family tree was not just a pastime; it was a way of life.

Section - A: English

25. Based on the passage, if George is a grandson of James Anderson, which of the following statements is true?

- (a) George is the son of Albert.
- (b) Freddy and Alice are the great-grandchildren of James.
- (c) George is the brother of Charlie and Daniel.
- (d) Samuel is the father of George.

Ans. b

Sol. Option (b) is correct because the passage states that George is the son of Samuel, who is the grandchild of James. Therefore, George's children, Freddy and Alice, would indeed be great-grandchildren of James Anderson. Option (a) is incorrect because the passage states that George is the son of Samuel, who is Sophia's child, not Albert's. Option (c) is incorrect because the passage states that George is Samuel's son while Charlie and Daniel are Mark's sons, which makes them first cousins, not brothers. Option (d) is incorrect because the passage states that George is Samuel's son, not Samuel is George's father, which is the inverse of the relationship asked for in the statement. Hence (b)

26. Select the appropriate option to fill the blank. "In Tarbendale, every resident could trace a connection to the Andersons. The village throbbed with stories about James and his descendants, each tale a thread in a vibrant tapestry of family, friendship, and love. Relationships crisscrossed and intersected, blending generations, careers, and personalities into a dynamic community bound by _____ and mutual respect."

- (a) Animosity (b) Indifference (c) Blood (d) Hostility

Ans. c

Sol. Option (c) is correct because it completes the sentence in a way that aligns with the passage's theme of kinship and familial ties. The passage describes Tarbendale as a

community tied by generations of the Anderson family, and this option reinforces that point. Option (a) is incorrect because "animosity" contradicts the overall positive and communal tone of the passage. Option (b) is incorrect because "indifference" suggests a lack of interest or concern, which contradicts the strong connections and active involvement implied in the rest of the passage. Option (d) is incorrect because "hostility" suggests conflict and animosity, which conflicts with the passage's description of Tarbendale as a community bound by mutual respect and familial ties. Hence (c)

27. "Relationships crisscrossed and intersected, blending generations, careers, and personalities into a dynamic community bound by blood and mutual respect." This sentence implies that:

- (a) Tarbendale is a community defined by chaos and confusion.
- (b) The villagers in Tarbendale do not value their relationships with one another.
- (c) There's a rigid hierarchy of power and control in Tarbendale.
- (d) The kinship ties in Tarbendale incorporate various aspects of life and generations.

Ans. d

Sol. Option (d) is correct because the sentence speaks to the intersection and blending of relationships across generations, careers, and personalities, indicating a diverse and multi-dimensional community bound by familial and respectful ties. Option (a) is incorrect because the passage does not portray Tarbendale as chaotic or confused. The described interconnections are complex but not disorderly. Option (b) is incorrect because the passage emphasizes the strength of relationships in Tarbendale and their significance in uniting the community. Option (c) is incorrect because there is no mention or suggestion of a rigid hierarchy or control system in Tarbendale. Hence (d)

28. Which of the following categories best describes this piece of writing?

- (a) A scientific report.
- (b) A fictional narrative.
- (c) A persuasive argument.
- (d) An instructional manual.

Ans. b

Sol. Option (b) is correct because the passage tells a story about a family and a community. It involves characters, describes their relationships and roles, and creates a narrative about life in Tarbendale. Option (a) is incorrect because the passage doesn't present any scientific data or findings. Option (c) is incorrect because the passage doesn't aim to persuade the reader about a certain viewpoint or action. Option (d) is incorrect because the passage doesn't provide any instructions or directions on how to do something. Hence (b)

29. Which of the following words from the passage means 'a pattern or picture made by weaving or knotting threads'?

- (a) Genealogy
- (b) Tapestry
- (c) Kinship
- (d) Adventurer

Ans. b

Sol. Option (b) is correct because a 'tapestry' is a type of textile art, typically woven on a vertical loom, which can contain intricate patterns or pictures. Option (a) is incorrect because 'genealogy' refers to the study of family history and the lineage of ancestors, not a type of pattern or picture. Option (c) is incorrect because 'kinship' refers to the connections between individuals established through marriage, blood relationships, or adoption, not a type of pattern or picture. Option (d) is incorrect because an 'adventurer' is a person who seeks out and enjoys dangerous or exciting experiences, which has no connection to a type of pattern or picture. Hence (b)

Section - B: Logical Reasoning

30. What can be said about the 'complex network of kinship' as per the passage except?

- (a) It was an intricate web of relations. (b) It was an adhesive for the community.
 (c) It was a vibrant tapestry of tales. (d) It was all about birth and marriage.

Ans. d

Sol. Option (d) is correct. The first two lines in the passage state that the complex network of kinship was not about birth or marriage. 'The complex network of kinship was more than a matter of birth or marriage; it was the social glue that held the community together.' Options (a) and (c) are stated in the following lines, 'At the heart of this intricate web of relations ' and 'The village throbbed with stories about James and his descendants, each tale a thread in a vibrant tapestry of family, friendship, and love'. Hence (d).

31. Based on the kinship mentioned in the passage, how is Charlie related to Isabelle?

- (a) Nephew (b) Second cousin (c) First cousin (d) Third cousin

Ans. b

Sol. Option (b) is correct because Charlie's father Mark, and Samuel are first cousins. Isabelle's father is Samuel). Therefore, Charlie, being the next generation, is a second cousin to Isabelle.

32. If we consider the familial relationships mentioned in the passage, how Edward is related to the Freddy?

- (a) Uncle (b) First Cousin (c) Nephew (d) Brother

Ans. a

Sol. Option (a) is correct because Freddy's father George and Edward are second cousins. Hence Edward is Uncle of Freddy.

33. According to the kinship described in the passage, how is Marianne (female) related to Daniel?

- (a) Aunt (b) Second Cousin once removed
 (c) Great-Aunt (d) Grandmother

Ans. a

Sol. Option (a) is correct because Daniel's father Mark's first cousin is Marianne. Therefore, Marianne is the aunt to Daniel.

34. Based on the text of the passage which of the following can be a correct conclusion?

- (a) The people of the village were more concerned about the names of the members of James family.
 (b) The people of the village eagerly waited to listen to the stories of the James family.
 (c) The family of James Anderson were of diverse professions bound together by love and respect.
 (d) All of the above.

Ans. c

Sol. Option (c) is correct. Option (a) is incorrect because the people were not concerned, rather the family members were themselves concerned about the names and relationships of their own intricate family. It can be understood from the last two lines of the passage. 'The intricate relationships that their great-grandfather James had fostered were a source of fascination and pride for them. They took it upon themselves to learn the names, the relationships, and the interwoven stories of their kith and kin. After all,

in Tarbendale, knowing one's family tree was not just a pastime; it was a way of life. Option (b) is incorrect because, it is stated in the second paragraph of the passage, 'When you sat in the cozy tea shop run by Mary, it was not uncommon to overhear lively conversations about the village's genealogy'. Hence (c).

35. Based on the familial relationships depicted in the passage, who is the person that can correctly say, "My father's sister's son's daughter's sister is my niece"?

- (a) Samuel (b) George (c) Mark (d) Richard

Ans. b

Sol. Option (b) is correct because George's sister (Isabelle) has no children, but George's son (Freddy) has a sister (Alice). Hence, George's father's sister's son's daughter's sister (George's father -> Albert -> Sophia -> Samuel -> George -> Alice) is indeed George's niece. Option (a) is incorrect because Samuel's sister is Isabelle, who has no children. Therefore, there is no niece for Samuel in this context. Option (c) is incorrect because Mark's father's sister's son's daughter's sister does not exist. Mark's father (Albert) has a sister (Sophia), but Sophia's son (Samuel) only has one child (George), so there is no sister for George's daughter in this context. Option (d) is incorrect because Richard's sister (Sophia) has a son (Samuel) with one child (George), and George's daughter (Alice) has no sister. Thus, Richard cannot have a niece in this context. Hence (b)

36. Which statement is true regarding the relationship between Daisy and George?

- (a) Daisy is George's second cousin. (b) Daisy is George's first cousin.
(c) Daisy is George's third cousin. (d) Daisy is George's fourth cousin.

Ans. a

Sol. Option (a) is correct because Daisy and George are second cousins. Daisy's father William, and George's father Samuel are first cousins. Therefore, Daisy and George, being from the same generation but their fathers are first cousins, are second cousins. Hence (a).

Passage-IV

In the realm of physics, there exists a delicate balance of forces that govern the motion of objects. A ubiquitous example of this balance is the operation of a modern high-speed train, the Hyperloop. Conceptualized as a sealed system, the Hyperloop encapsulates a pod-like vehicle through a network of reduced-pressure tubes, accelerating it to high speeds using a combination of electromagnetic propulsion and air bearings. The Hyperloop's design allows for nearly frictionless motion, making it one of the most energy-efficient modes of transportation. The technology relies on two key aspects: the reduction of air pressure inside the tube, and the use of magnetic levitation (maglev) technology to support the pods. The low-pressure environment is achieved by a series of vacuum pumps, reducing the air pressure inside the tube to approximately one-thousandth of atmospheric pressure at sea level. This lack of air resistance allows the pod to maintain its high speed with minimal energy input. The maglev technology is a crucial component of the Hyperloop system. It allows the pod to float above the track, eliminating almost all friction. When the pod is propelled forward, the magnetic forces keep it aligned and stable, while also preventing it from coming into direct contact with the tube.

However, the operation of the Hyperloop is not without challenges. One primary concern is ensuring the stability of the pods, especially at high speeds. Without proper stabilization, the pods could experience unwanted lateral movements, potentially leading

to catastrophic failures. Another concern is the comfort of the passengers. Due to the high speeds involved, rapid accelerations and decelerations could induce nausea or discomfort. It's also worth noting the feasibility of constructing a Hyperloop system. The infrastructure required is massive and expensive, and it must be built in a manner that ensures the system's safety and reliability. This includes maintaining the vacuum within the tubes, ensuring the integrity of the maglev system, and implementing failsafe measures to protect the passengers in case of emergencies. Despite these challenges, if executed well, the Hyperloop promises to revolutionize transport by offering high-speed, efficient, and environmentally friendly transportation. With speeds potentially exceeding that of commercial aircraft, the Hyperloop could change the way we travel, connecting cities and even countries in a fraction of the time currently required.

Section - A: English

37. Which of the following is not true according to the given passage?

- (a) Hyperloop's design allows frictionless motion, making it the most energy-efficient modes of transportation.
- (b) Hyperloop is encapsulated like a pod in a network of tubes.
- (c) Hyperloop operation is a delicate balance of forces.
- (d) The Hyperloop system is like constructing a massive infrastructure

Ans. a

Sol. Option (a) is correct. It is contradicted in the first few lines of the passage, 'there exists a delicate balance of forces that govern the motion of objects. A ubiquitous example of this balance is the operation of a modern high-speed train, the Hyperloop. Conceptualized as a sealed system, the Hyperloop encapsulates a pod-like vehicle through a network of reduced-pressure tubes, accelerating it to high speeds using a combination of electromagnetic propulsion and air bearings. The Hyperloop's design allows for nearly frictionless motion, making it one of the most energy-efficient modes of transportation.' The rest of the options are established in the same. Hence (a).

38. Select the option that can be the most suitable concluding line to this text.

- (a) While the Hyperloop is undoubtedly an impressive piece of technology, it is not without its drawbacks.
- (b) To summarize, the Hyperloop has the potential to redefine the parameters of speed and efficiency, yet the practical realization of this technology is fraught with technical and logistical challenges.
- (c) In conclusion, the balance of forces in a Hyperloop system creates a frictionless, efficient mode of transport that could one day rival air travel.
- (d) With further research and development, the Hyperloop can overcome its present challenges and truly transform the world of transportation.

Ans. b

Sol. Option (b) is correct because it both summarizes the main points in the passage - the potential of Hyperloop and its challenges, and adds a conclusion that it's fraught with technical and logistical issues. It brings together all the key points from the passage in a comprehensive way, making it a fitting conclusion. Option (a) is incorrect because it merely states a fact that has already been covered in the passage. It does not provide a concise summary or a forward-looking statement which is expected of a conclusion. Option (c) is incorrect because it only summarizes some aspects of the passage. While it mentions the potential benefits of the Hyperloop, it fails to acknowledge the challenges and limitations, as discussed in the text. Option (d) is incorrect because, although it

provides a forward-looking statement, it does not fully encapsulate the main points made in the passage. A conclusion should ideally touch upon the major elements discussed in the text. Hence (b)

39. Select the option that correctly completes the following analogy based on the information in the passage. Hyperloop: High-speed Transportation :: _____ : _____

- (a) Vacuum pumps: Low-pressure environment
- (b) Air bearings: Frictionless motion
- (c) Magnetic levitation: Stability
- (d) Rapid accelerations and decelerations: Passenger discomfort

Ans. b

Sol. Option (b) is correct because air bearings are indeed a significant part of what allows the Hyperloop to achieve frictionless motion, just as the Hyperloop is a significant part of high-speed transportation. Option (a) is incorrect because although vacuum pumps are used to create a low-pressure environment in the Hyperloop, they do not represent the entire concept of a low-pressure environment as Hyperloop represents high-speed transportation. Option (c) is incorrect because although magnetic levitation contributes to the stability of the Hyperloop, it does not encompass the entirety of stability in the same way that Hyperloop represents high-speed transportation. Option (d) is incorrect because rapid accelerations and decelerations are a cause of passenger discomfort, not a representative or component of it, unlike the Hyperloop, which is a component of high-speed transportation. Hence (b)

40. In the passage, replace the underlined word in the following sentence: "Without proper stabilization, the pods could experience unwanted lateral movements, potentially leading to catastrophic failures."

- (a) Detrimental
- (b) Capacious
- (c) Bombastic
- (d) Insignificant

Ans. a

Sol. Option (a) is correct. The word 'detrimental' has a similar meaning to 'catastrophic'. It refers to something extremely harmful or disastrous. Both terms convey the idea of serious harm or damage, which fits the context of the sentence. Option (b) is incorrect, because 'capacious' means 'voluminous, spacious etc. Option (c) is incorrect because 'bombastic' pompous and showy mainly related to writing and speech. Option (d) is incorrect because 'insignificant' means not large or important enough to be worth considering, 'negligible'. It is not similar to 'catastrophic'. Hence (a).

41. Select the option that can be the most suitable introductory line to this text.

- (a) This article will discuss the intricacies and challenges involved in the construction and operation of submarines.
- (b) Let's take a dive into the world of high-speed, efficient transportation systems: the Hyperloop.
- (c) An overview of the invention and evolution of the modern-day combustion engine.
- (d) A comprehensive look at the advantages and disadvantages of solar-powered vehicles.

Ans. b

Sol. Option (b) is correct because it provides an introduction to the topic discussed in the passage, which is the Hyperloop. This sentence establishes the context and subject of the passage in a way that is consistent with the information that follows. Option (a) is incorrect because the passage does not talk about the intricacies and challenges involved in the construction and operation of submarines. The main focus is the

Hyperloop, a high-speed transportation system, not submarines. Option (c) is incorrect because the passage does not discuss the invention and evolution of the modern-day combustion engine. Instead, the primary topic of the passage is the Hyperloop. Option (d) is incorrect because the passage does not discuss solar-powered vehicles. It focuses on the Hyperloop, a specific type of high-speed transportation system. Hence (b).

Section - B: Logical Reasoning

42. In the Hyperloop system, the primary function of the vacuum pumps is to:

- (a) Decrease the air pressure within the tube to approximately one-thousandth of atmospheric pressure at sea level.
- (b) Increase the air pressure within the tube to a level equivalent to that at the bottom of the ocean.
- (c) Regulate the temperature within the tube to prevent overheating of the pods.
- (d) Generate electromagnetic forces necessary for the propulsion of the pods.

Ans. a

Sol. Option (a) is correct because the passage states that "The low-pressure environment is achieved by a series of vacuum pumps, reducing the air pressure inside the tube to approximately one-thousandth of atmospheric pressure at sea level." This reduction of air pressure is critical to ensure that the pods can maintain high speeds with minimal energy input. Option (b) is incorrect because the passage states that the vacuum pumps are used to reduce, not increase, the air pressure within the tube. There is no reference in the text to increasing the pressure to levels equivalent to that at the bottom of the ocean. Option (c) is incorrect because there is no mention in the passage of the vacuum pumps being used to regulate the temperature within the tube. While the management of heat may be a concern for a high-speed transport system like the Hyperloop, the passage does not link this to the function of the vacuum pumps. Option (d) is incorrect because the passage states that the propulsion of the pods is achieved through "a combination of electromagnetic propulsion and air bearings," but does not associate this function with the vacuum pumps. The role of the vacuum pumps, as described in the passage, is to reduce the air pressure in the tube, not to generate electromagnetic forces for propulsion. Hence (a)

43. Which of the following is a significant concern for the successful operation of the Hyperloop system as per the passage?

- (a) The economic feasibility of constructing the Hyperloop system.
- (b) The system's inability to reach high speeds due to the presence of friction.
- (c) The need for passengers to wear special equipment to withstand high speeds.
- (d) The extraction of energy from the system for auxiliary functions.

Ans. a

Sol. Option (a) is correct. The passage indicates that the feasibility of constructing a Hyperloop system is a concern. The passage states that "The infrastructure required is massive and expensive, and it must be built in a manner that ensures the system's safety and reliability." Option (b) is incorrect because the passage highlights that the Hyperloop system is designed to achieve high speeds with minimal energy input, thanks to the reduced air pressure and the use of maglev technology that eliminates almost all friction. Thus, reaching high speeds is not a concern, as per the passage. Option (c) is incorrect because there is no mention in the passage about the need for passengers to wear special equipment due to high speeds. While the passage discusses the potential discomfort due to rapid accelerations and decelerations, it does not suggest that special

equipment is required. Option (d) is incorrect because the passage does not mention the need to extract energy from the system for auxiliary functions. It talks about the energy efficiency of the system and its ability to maintain high speeds with minimal energy input, but does not discuss extracting energy for other purposes. Hence (a).

44. There are six stations (A, B, C, D, E, and F) in the proposed Hyperloop route. Station B is after A but before D. Station C is after E but before A. Station F is after D. What could be the correct order of the stations?

- (a) E, C, A, B, D, F (b) A, B, D, E, C, F (c) C, A, B, D, E, F (d) B, A, C, E, D, F

Ans. a

Sol. Option (a) is correct because the passage states that station B is after A but before D, station C is after E but before A, and station F is after D. The only sequence that meets all these conditions is E, C, A, B, D, F. Option (b) is incorrect because the passage states that station C is after E but before A. In this sequence, C is after A, which contradicts the given conditions. Option (c) is incorrect because the passage states that station B is after A. In this sequence, B is before A, which contradicts the given conditions. Option (d) is incorrect because the passage states that station F is after D, and station C is after E but before A. In this sequence, F is before D, and C is before E, which contradicts the given conditions.

45. Suppose the Hyperloop has a stoppage at four stations (P, Q, R, and S). Station R is before station Q but after station P. Station S is the last station. Which among the following statements is correct about the sequence of stations?

- (a) Station R is the first station. (b) Station P is after station Q.
(c) Station Q is the last station. (d) Station P is the first station.

Ans. d

Sol. Option (d) is correct because the passage states that station R is before station Q but after station P, and station S is the last station. This suggests that station P must come before both station R and station Q, making it the first station. Option (a) is incorrect because the passage states that station R is before station Q but after station P. This implies that station R cannot be the first station as there is at least one station (P) before it. Option (b) is incorrect because the passage states that station R is before station Q but after station P. This implies that station P must be before station Q, not after it. Option (c) is incorrect because the passage states that station S is the last station, which contradicts the statement that station Q is the last station.

46. In the Hyperloop system, the main purpose of the magnetic levitation (maglev) technology is to:

- (a) Generate the low-pressure environment within the tube.
(b) Allow the pod to float above the track, thereby eliminating almost all friction.
(c) Regulate the temperature within the tube.
(d) Propagate signals for communication between the pods.

Ans. b

Sol. Option (b) is correct. The passage states that "The maglev technology is a crucial component of the Hyperloop system. It allows the pod to float above the track, eliminating almost all friction." The purpose of this technology is to eliminate friction, making high-speed travel more feasible and efficient. Option (a) is incorrect because the passage states that the low-pressure environment within the tube is achieved by a series of vacuum pumps, not through the use of maglev technology. Option (c) is incorrect

because there is no mention in the passage of the maglev technology being used to regulate the temperature within the tube. The function of maglev, as described in the passage, is to allow the pod to float and thereby reduce friction. Option (d) is incorrect because there is no mention in the passage of the maglev technology being used to propagate signals for communication between the pods. The main purpose of maglev in the Hyperloop system, according to the passage, is to eliminate friction by levitating the pod above the track. Hence (b)

47. Assuming the Hyperloop pods have a maximum capacity of 30 passengers each, and during a peak hour, three stations (V, W, and X respectively) report full capacity of outgoing passengers of a pod. Which among the following statements is correct? (Assuming no passengers were left in hyperloop pods after station X and no passengers boarded from these stations)

- (a) The total number of passengers in the hyperloop initially is less than 60.
- (b) The total number of passengers in the hyperloop initially is equal to 90.
- (c) The total number of passengers in the hyperloop initially is more than 90.
- (d) The total number of passengers in the hyperloop initially cannot be determined.

Ans. b

Sol. Option (b) is correct because if each pod has a maximum capacity of 30 passengers and each station reports a full capacity of outgoing passengers, then each station will have one full pod leaving. Given there are three stations (V, W, and X), the total number of passengers leaving these stations in one pod would be 30 (from V) + 30 (from W) + 30 (from X) = 90. Since it's mentioned that there were no passengers left after station X, hence total passengers initially in Hyperloop were 90.

48. In a Hyperloop race, ten pods (P, Q, R, S, T, U, V, W, X, and Y) participate. Pod T starts first, followed by pod S. Pod V starts immediately after pod R and immediately before pod U. Pod Q starts immediately after pod S, and pod X starts immediately after pod U. Pod X starts from the last position. How many pods are there between S and U?

- (a) Five Pods (b) Six Pods (c) Four Pods (d) Seven Pods

Ans. b

Sol. Option (b) is correct because the passage states that Pod T starts first, followed by pod S which means Pod S is at second position. Pod Q starts immediately after pod S. As Pod S starts second, Pod Q must start third (TSQ). Pod V starts immediately after pod R and immediately before pod U (RVU). Pod X starts immediately after pod U (RVUX). Pod X starts from the last position. Therefore pod U starts from 9th Position. Hence number of pods between S and U are 6.

Passage-V

In the fascinating world of computer science, quantum computing is arguably the most intellectually intriguing domain. Quantum computing leans on the principles of quantum mechanics, the science of particles smaller than an atom. Utilizing quantum bits or 'qubits' instead of traditional binary bits, quantum computers possess the potential to solve intricate problems far beyond the capacity of classical computing machines. Imagine a traditional computer as a diligent librarian, painstakingly sifting through each book in a library to find a single phrase. In comparison, a quantum computer could read all the books simultaneously, due to a property called superposition. Superposition allows qubits to exist in multiple states at once, unlike classical bits which can either be in a state of 0 or 1. Therefore, quantum computers can

perform multiple computations at once, theoretically making them exponentially faster. Another significant principle at play is entanglement, where the state of one qubit is intrinsically connected to another, irrespective of the physical distance between them. This connection allows quantum computers to perform complex calculations instantaneously, which would otherwise take traditional machines years, if not centuries. The third principle quantum computers exploit is quantum tunneling, a process that allows particles to move through barriers as if they weren't there. This is leveraged for more efficient search and optimization processes.

However, despite these groundbreaking potential advantages, quantum computers are not yet a staple in our everyday lives. The reason being, creating a working quantum computer that can outperform traditional computers, known as achieving 'quantum supremacy', is extraordinarily challenging. Qubits are highly sensitive, and factors such as temperature, electromagnetic fields, and even cosmic rays can cause them to shift from their state, leading to computational errors. Moreover, the massive energy requirements for cooling qubits to near absolute zero temperatures, typically using a dilution refrigerator, leads to significant operational costs. Furthermore, programming a quantum computer demands a novel approach as well, considering that algorithms for classical computers don't apply to quantum machines. Yet, the pursuit of quantum supremacy continues relentlessly, driven by potential applications in cryptography, optimization, and scientific modeling. Google, IBM, and several others have already made significant strides, creating quantum computers with tens of qubits, although we are still a long way from practical use. Understanding the intricacies of quantum computing is not a simple task. Like climbing a steep hill, it demands patience, resilience, and intellectual rigor. Even seasoned computer scientists often find themselves puzzled by quantum phenomena. However, the rewards at the summit - the potential to revolutionize computing and solve previously insurmountable problems - make the intellectual challenge a worthy one. So the journey into quantum computing continues, the destination is uncertain, and the path, though arduous, holds an irresistible allure for the intellectually curious. As we venture further into this realm, we are truly pushing the boundaries of human knowledge and understanding.

Section - A: English

49. "Understanding the intricacies of quantum computing is not a simple task. Like climbing a steep hill, it demands patience, resilience, and intellectual rigor." In elaboration of this sentence, which of these options follows?

- (a) Quantum computing is a journey that can be undertaken with casual effort and a relaxed mindset.
- (b) Understanding quantum computing is as easy as understanding classical computing.
- (c) Understanding quantum computing requires consistent effort, endurance, and a high degree of intellectual commitment.
- (d) The author believes that understanding quantum computing is an impossible task.

Ans. c

Sol. Option (c) is correct because the passage emphasizes that understanding quantum computing requires qualities such as patience, resilience, and intellectual rigor. These qualities align with the idea of consistent effort, endurance, and a high degree of intellectual commitment. Option (a) is incorrect because the passage doesn't suggest that understanding quantum computing can be undertaken with casual effort. Instead, it likens the process to climbing a steep hill, which generally requires considerable effort. Option (b) is incorrect because the passage clearly states that understanding the

intricacies of quantum computing is "not a simple task." Therefore, it wouldn't be as easy as understanding classical computing. Option (d) is incorrect because even though the passage acknowledges the complexity of understanding quantum computing, it doesn't suggest that it's an impossible task. The tone of the passage is encouraging and portrays the pursuit of understanding quantum computing as a challenging yet achievable and rewarding endeavor. Hence (c).

50. Which of the following can be inferred about the author's views on the potential of quantum computing?

- (a) The author is skeptical about the viability of quantum computers due to the massive energy requirements for cooling qubits.
- (b) The author believes that quantum computers could revolutionize computing and solve previously insurmountable problems.
- (c) The author thinks that quantum computers are less efficient than classical computers.
- (d) The author asserts that quantum computers will become a staple in everyday life very soon.

Ans. b

Sol. Option (b) is correct as the author mentions that the potential to revolutionize computing and solve previously insurmountable problems makes the intellectual challenge of understanding quantum computing a worthy one. This suggests optimism regarding the potential of quantum computing. Option (a) is incorrect because, despite the mention of significant operational costs due to energy requirements, the author does not express skepticism regarding the viability of quantum computers. Option (c) is incorrect because the author clearly states that quantum computers have the potential to be exponentially faster than classical computers and can perform computations that traditional machines would take years, if not centuries, to perform. Option (d) is incorrect as the author clearly states that "we are still a long way from practical use," which implies that the author does not think quantum computers will become a staple in everyday life very soon. Hence (b).

51. "Yet, the pursuit of quantum supremacy continues relentlessly, driven by potential applications in cryptography, optimization, and scientific modeling." This sentence implies that:

- (a) Quantum supremacy has already been achieved in the field of cryptography, optimization, and scientific modeling.
- (b) The pursuit of quantum supremacy is slowing down due to its complexities.
- (c) The drive to achieve quantum supremacy is unwavering, propelled by the possible uses in various fields such as cryptography, optimization, and scientific modeling.
- (d) Quantum supremacy is not of significant interest in cryptography, optimization, and scientific modeling.

Ans. c

Sol. Option (c) is correct because it accurately represents the implications of the statement in the passage. It underlines the continuous pursuit of quantum supremacy and its motivation drawn from potential applications in various fields. Option (a) is incorrect because the passage doesn't state that quantum supremacy has been achieved. It says that the pursuit of it continues, which implies it hasn't been reached yet. Option (b) is incorrect because the passage specifically mentions the pursuit continues "relentlessly", which means it is not slowing down despite the challenges. Option (d) is

incorrect because the sentence from the passage implies that the potential applications in cryptography, optimization, and scientific modeling are significant driving factors in the pursuit of quantum supremacy. Hence (c)

52. What does the word 'entanglement' as used in the passage, mean?

- (a) A state where qubits are physically tangled.
- (b) A condition where one qubit is intrinsically linked to another, regardless of the physical distance between them.
- (c) A state of confusion in the quantum computing system.
- (d) The process where particles move through barriers as if they weren't there.

Ans. b

Sol. Option (b) is correct because, as the passage explains, entanglement refers to a principle where the state of one qubit is intrinsically connected to another, irrespective of the physical distance between them. Option (a) is incorrect because entanglement in the context of quantum computing does not refer to a physical tangling of qubits. Option (c) is incorrect because 'entanglement' in the context of the passage does not represent a state of confusion, but rather a unique phenomenon in quantum mechanics. Option (d) is incorrect as it conflates the principle of entanglement with quantum tunneling. The passage defines quantum tunneling as a process that allows particles to move through barriers as if they weren't there, which is not the definition of entanglement. Hence (b).

53. "All the following pairs of words are synonyms, except:"

- (a) Intricate – Complex
- (b) Pursuit – Avoidance
- (c) Phenomena – Events
- (d) Potential - Possibility

Ans. b

Sol. Option (b) is correct because "pursuit" and "avoidance" are antonyms, not synonyms. While "pursuit" refers to the act of seeking or striving for something, "avoidance" refers to the act of staying away from or preventing something. Option (a) is incorrect because "intricate" and "complex" are synonyms; both words refer to something that has many interconnected elements and is therefore difficult to understand or analyze. Option (c) is incorrect because "phenomena" and "events" are synonyms in the context of the passage. Both terms refer to observable occurrences or happenings. Option (d) is incorrect because "potential" and "possibility" are synonyms; both refer to the capacity or potentiality for something to happen or exist in the future. Hence (b).

Section - B: Logical Reasoning

54. According to the passage, why has 'quantum supremacy', the ability of a quantum computer to outperform traditional computers, not yet been achieved on a practical level?

- (a) Quantum computers, despite having more advanced capabilities, are less reliable than traditional computers due to the high sensitivity of qubits.
- (b) Quantum computers require extremely low temperatures for operation, which traditional computers do not.
- (c) Quantum computers require an entirely new approach to programming, which is yet to be developed.
- (d) All of the above

Ans. a

Sol. Option (a) is correct because the passage states that "Qubits are highly sensitive, and factors such as temperature, electromagnetic fields, and even cosmic rays can cause

them to shift from their state, leading to computational errors." This explains that the sensitivity of qubits is a hindrance in the reliability of quantum computers, which directly impacts their practicality. Option (b) is incorrect because although the passage states that "the massive energy requirements for cooling qubits to near absolute zero temperatures, typically using a dilution refrigerator, leads to significant operational costs," this only explains one of the challenges and does not comprehensively cover all reasons for why quantum supremacy has not been achieved. Option (c) is incorrect because while the passage does mention that "programming a quantum computer demands a novel approach," this again only explains one facet of the challenge in achieving quantum supremacy. Option (d) is incorrect because, while it correctly identifies that all of the mentioned reasons do contribute to the current unfeasibility of achieving quantum supremacy, it misses other key details provided in the passage, such as the issues with quantum tunneling and entanglement, which are equally important in the broader context. Thus, it does not fully and accurately encapsulate the complete set of challenges outlined in the passage. Hence (a).

55. The passage alludes to some potential benefits of quantum computers. Which of the following is NOT listed as a potential benefit in the passage?

- (a) The ability to perform multiple computations at once.
- (b) The ability to perform complex calculations instantaneously.
- (c) The ability to reduce computational errors to a negligible level.
- (d) The potential to revolutionize computing and solve previously insurmountable problems.

Ans. c

Sol. Option (c) is correct because the passage does not list reducing computational errors to a negligible level as a benefit of quantum computing. In fact, it highlights that qubits' high sensitivity can lead to computational errors, which poses a challenge for quantum computing. Option (a) is incorrect because the passage states that "quantum computers can perform multiple computations at once, theoretically making them exponentially faster." This indicates that performing multiple computations simultaneously is a benefit of quantum computing. Option (b) is incorrect because the passage mentions that "this connection (entanglement) allows quantum computers to perform complex calculations instantaneously," which suggests instantaneous complex calculations as a potential advantage of quantum computers. Option (d) is incorrect because the passage mentions that quantum computing has the potential to "revolutionize computing and solve previously insurmountable problems," pointing to this as a potential benefit of quantum computing. Hence (c).

56. According to the passage, what property of quantum mechanics allows a quantum computer to exist in multiple states at once, as opposed to a traditional computer that can only exist in a state of 0 or 1?

- (a) Quantum entanglement
- (b) Quantum tunneling
- (c) Quantum superposition
- (d) Quantum supremacy

Ans. c

Sol. Option (c) is correct because the passage says that "superposition allows qubits to exist in multiple states at once, unlike classical bits which can either be in a state of 0 or 1." This makes it clear that the property of quantum superposition allows a quantum computer to exist in multiple states at once. Option (a) is incorrect because the passage states that "entanglement, where the state of one qubit is intrinsically connected to

another," enables instantaneous complex calculations, but does not allow a quantum computer to exist in multiple states at once. Option (b) is incorrect because the passage mentions that "quantum tunneling, a process that allows particles to move through barriers as if they weren't there" is utilized for more efficient search and optimization processes, not for existing in multiple states at once. Option (d) is incorrect because the passage refers to 'quantum supremacy' as the stage where a quantum computer can outperform traditional computers. It is not a property of quantum mechanics that allows a quantum computer to exist in multiple states at once. Hence (c).

57. Based on the passage, which of the following statements regarding the journey into quantum computing is accurate?

- (a) The path towards understanding quantum computing is straightforward and simple.
- (b) Quantum computing is primarily attractive due to its cost-effectiveness.
- (c) The journey into quantum computing is intellectually challenging yet holds an irresistible allure for the intellectually curious.
- (d) Quantum computing has already surpassed classical computing in practical applications.

Ans. c

Sol. Option (c) is correct because the passage specifically mentions that "the journey into quantum computing continues, the destination is uncertain, and the path, though arduous, holds an irresistible allure for the intellectually curious." This clearly encapsulates the intellectual challenges and allure associated with quantum computing. Option (a) is incorrect because the passage states that "understanding the intricacies of quantum computing is not a simple task." It likens the journey to climbing a steep hill, implying that it is challenging rather than straightforward and simple. Option (b) is incorrect because while the passage does mention the operational costs associated with quantum computing, it does not identify cost-effectiveness as a primary attraction. Instead, it highlights the potential to solve intricate problems and the intellectual allure of the field. Option (d) is incorrect because the passage clearly states that while strides have been made in the field of quantum computing, we are still "a long way from practical use." This suggests that quantum computing has not yet surpassed classical computing in practical applications. Hence (c).

58. Based on the passage, which of the following is NOT a significant challenge in achieving 'quantum supremacy'?

- (a) The high sensitivity of qubits to external factors
- (b) The need for a novel approach to programming quantum computers
- (c) The availability of a dilution refrigerator for cooling qubits
- (d) The energy requirements for maintaining near absolute zero temperatures

Ans. c

Sol. Option (c) is correct because the passage does mention the need for a dilution refrigerator to cool qubits to near absolute zero temperatures. However, it does not imply that the availability of such a refrigerator is a significant challenge. The main concern expressed is the "massive energy requirements" associated with cooling, not the availability of the equipment. Option (a) is incorrect because the passage states that "qubits are highly sensitive, and factors such as temperature, electromagnetic fields, and even cosmic rays can cause them to shift from their state, leading to computational errors." This demonstrates that the high sensitivity of qubits is indeed a significant challenge in achieving quantum supremacy. Option (b) is incorrect because the passage

mentions that "programming a quantum computer demands a novel approach," indicating that this is a significant challenge to the practical implementation of quantum computing. Option (d) is incorrect because the passage mentions that "the massive energy requirements for cooling qubits to near absolute zero temperatures... leads to significant operational costs." This suggests that the energy requirements are indeed a significant challenge in achieving 'quantum supremacy'.

59. In the context of the passage, which of the following best describes the role of 'quantum tunneling' in quantum computing?

- (a) It allows qubits to exist in multiple states at once.
- (b) It enables quantum computers to perform complex calculations instantaneously.
- (c) It provides a more efficient method for search and optimization processes.
- (d) It helps in reducing the energy requirements of quantum computers.

Ans. c

Sol. Option (c) is correct because the passage explains that "quantum tunneling, a process that allows particles to move through barriers as if they weren't there, is utilized in quantum computing for more efficient search and optimization processes." Option (a) is incorrect because the passage states that "superposition allows qubits to exist in multiple states at once." It is not quantum tunneling that enables this characteristic. Option (b) is incorrect because the passage indicates that it's quantum entanglement that "allows quantum computers to perform complex calculations instantaneously," not quantum tunneling. Option (d) is incorrect because the passage does not mention that quantum tunneling has any role in reducing the energy requirements of quantum computers. The high energy requirement is in fact one of the challenges in quantum computing. Hence (c).

60. Based on the passage, what role does 'quantum entanglement' play in the operation of quantum computers?

- (a) It allows quantum computers to perform multiple computations at once.
- (b) It helps reduce the sensitivity of qubits to external factors.
- (c) It allows quantum computers to perform complex calculations instantaneously.
- (d) It enables quantum computers to operate at room temperature.

Ans. c

Sol. Option (c) is correct because the passage specifically mentions that "this connection (entanglement) allows quantum computers to perform complex calculations instantaneously," which clearly connects quantum entanglement with the ability to perform complex calculations instantaneously. Option (a) is incorrect because the passage explains that it is quantum superposition, not entanglement that allows quantum computers to perform multiple computations at once. Option (b) is incorrect because the passage does not state that quantum entanglement reduces the sensitivity of qubits. In fact, it highlights that qubits' high sensitivity is a problem for quantum computing. Option (d) is incorrect because the passage states that quantum computers require extremely low temperatures to operate, and it does not mention that quantum entanglement could enable them to operate at room temperature. Hence (c).

Passage-VI

In the town of Aegis, certain social and economic characteristics guide the lifestyles and behaviours of the inhabitants. Aegis is known for its unique botanical growth, with some residents making a living from farming these unique crops. Others are professionals,

some working within the town and others commuting to neighbouring cities. Every resident of Aegis who farms their land grows either apples, berries, or corn. Those who grow apples always sell their produce at the local market on weekends. Farmers who cultivate berries, due to the delicate nature of their crops, have a specific selling arrangement with local grocery stores. Farmers growing corn, on the other hand, often ship their crops to neighbouring cities as corn is not a popular food item among Aegis locals. Moreover, many of the professionals working in Aegis, such as doctors, teachers, and lawyers, drive black cars. Those who commute to the neighbouring cities, such as engineers and architects, usually own white cars to reflect sunlight and keep the vehicle cooler during the hot and long journey. In contrast, those professionals who work in Aegis prefer walking or cycling to work, citing health and environmental consciousness as reasons.

In the heart of the town, there is a famous café named "Prolific Café." All Aegis residents who own black cars are regular customers of Prolific Café. Many of them enjoy the café's best-selling apple pie, made from locally grown apples. Interestingly, residents who own white cars seldom visit the café, preferring to make their coffee at home due to their early commuting schedule. Children in Aegis attend one of the two schools: Dawn Primary School or Dusk Middle School. Students of Dawn Primary School all have lunch boxes with their favourite superhero designs, while Dusk Middle School students carry plain lunchboxes as a part of the school's uniform policy. Finally, all Aegis residents are bound by an unwritten rule: those who own a bicycle always carry a basket in it, often used for transporting their work essentials or groceries. Conversely, those who walk to their destination always carry a backpack, as this allows for greater mobility.

Section - A: English

61. What can be inferred as common between the understanding of apple farmers and professionals who commute to neighbouring cities?

- (a) They both prefer to travel by bicycle to their destinations.
- (b) They both visit Prolific Café on a regular basis.
- (c) Their lifestyle choices are determined by the nature of their work and their location.
- (d) They both use white cars for their daily commute.

Ans. c

Sol. Option (c) is correct because the passage illustrates that apple farmers sell their produce at the local market, which is a lifestyle choice dictated by their work (farming apples) and their location (Aegis, a place with a local market where apples are sold). Similarly, professionals commuting to neighbouring cities drive white cars to reflect sunlight and keep the vehicle cooler during the hot and long journey, which is a lifestyle choice again influenced by their work (commuting to neighbouring cities) and location (a place with a hot climate). Option (a) is incorrect because the passage does not state that apple farmers or professionals commuting to neighbouring cities prefer to travel by bicycle. In fact, the apple farmers sell their produce at the local market and professionals commuting to neighbouring cities usually drive white cars. Option (b) is incorrect because while apple farmers sell their produce at the local market, the professionals commuting to neighbouring cities do not visit the café often as per the passage. They prefer to make their coffee at home due to their early commuting schedule. Option (d) is incorrect because while the professionals commuting to neighbouring cities use white cars, the passage does not mention the preferred mode of transportation for apple farmers. It only mentions that apple farmers sell their produce at the local market. Hence (c).

62. Select the option that negates the given opinion, based on the textual information.
"Corn is a popular food item among Aegis locals."

- (a) Corn farmers in Aegis cater mainly to the local market.
- (b) Corn farmers in Aegis distribute their produce primarily to neighboring cities.
- (c) Aegis locals only consume apples and berries.
- (d) Corn cultivation is not prevalent in Aegis.

Ans. b

Sol. Option (b) is correct because it directly contradicts the given opinion. The passage states that farmers growing corn often ship their crops to neighbouring cities, implying that corn is not a popular food item among Aegis locals. Option (a) is incorrect because it supports the given opinion that corn is popular among locals when, according to the passage, it is not. Option (c) is incorrect because, although it implies that corn is not popular among locals, it erroneously suggests that Aegis locals exclusively consume apples and berries. The passage does not provide enough information to support this claim. Option (d) is incorrect because it is stated in the passage that corn is indeed cultivated in Aegis. However, the issue lies in its popularity among locals, not its cultivation. Hence (b)

63. The word 'delicate' in the line 'Farmers who cultivate berries, due to the delicate nature of their crops, have a specific selling arrangement with local grocery stores.' refers to _____.

- (a) the physical characteristics of the berries.
- (b) the intricate procedure of growing berries.
- (c) the fragility of the berry market in Aegis.
- (d) the sentimental value attached to berry farming.

Ans. a

Sol. Option (a) is correct because the phrase 'delicate nature of their crops' refers to the physical characteristics of the berries. The word 'delicate' here means fragile or easily damaged, which is often used to describe certain types of fruits such as berries. Option (b) is incorrect because the passage does not discuss the process of growing berries, only that they are delicate and require a specific selling arrangement. Therefore, 'delicate' does not refer to the intricacies of cultivating berries. Option (c) is incorrect because the word 'delicate' in the given context does not refer to the market conditions for berries in Aegis, but to the physical characteristics of the berries themselves. Option (d) is incorrect because there is no information in the passage suggesting a sentimental value attached to berry farming in Aegis. The term 'delicate' here is used in a physical context, not an emotional one. Hence (a).

64. Which of the following options captures the meaning of the last sentence best?
"Conversely, those who walk to their destination always carry a backpack, as this allows for greater mobility."

- (a) Walking Aegis residents find it inconvenient to carry backpacks.
- (b) Backpacks are the only items that Aegis locals carry when walking.
- (c) Backpacks facilitate easier movement for Aegis locals who walk.
- (d) Aegis locals who walk always wear backpacks to show their environmental consciousness.

Ans. c

Sol. Option (c) is correct because the passage states that those who walk to their destination always carry a backpack as this allows for greater mobility, indicating that the backpacks facilitate easier movement. Option (a) is incorrect because the passage states the opposite. Those who walk to their destination always carry a backpack as it allows for greater mobility, suggesting that they find it convenient, not inconvenient. Option (b) is incorrect because the passage does not assert that backpacks are the only items Aegis locals carry when walking. It only states that they always carry a backpack, not excluding other possible items. Option (d) is incorrect because the passage does not link the act of wearing backpacks to environmental consciousness. The backpacks are carried for practical purposes (greater mobility), not as a symbol of environmental awareness. Hence (c).

65. Which of the following is an incorrect sentence?

- (a) "Children in Aegis attend one of the two schools: Dawn Primary School or Dusk Middle School."
- (b) "Those who commute to the neighboring cities, such as engineers and architects, usually own white cars to reflect sunlight and keep the vehicle cooler during the hot and long journey."
- (c) "All Aegis residents who own black cars are regular customers of Prolific Café."
- (d) "All Aegis residents are bound by an unwritten rule: those who own a bicycle always carry a basket in it."

Ans. d

Sol. Option (d) is correct. The sentence should be "**All Aegis residents are bound by an unwritten rule: those who own a bicycle always carry a basket on it.**" The rest of the sentences are grammatically correct. Hence (d).

Section - B: Logical Reasoning

66. Which of the following can be an assumption of the author?

- (a) Black cars cannot reflect sunlight.
- (b) There are residents of the town who do not farm their land.
- (c) Walking or cycling to work will not have much effect on health.
- (d) All of the above

Ans. b

Sol. Option (b) is correct. It is mentioned in the passage that 'Every resident of Aegis who farm his land grows either apples, berries, or corn.' So it can be assumed that there may be residents who do not farm their lands. Options (a) and (c) can be understood from the last few lines of the first paragraph. 'Moreover, many of the professionals working in Aegis, such as doctors, teachers, and lawyers, drive black cars. Those who commute to the neighbouring cities, such as engineers and architects, usually own white cars to reflect sunlight and keep the vehicle cooler during the hot and long journey. In contrast, those professionals who work in Aegis prefer walking or cycling to work, citing health and environmental consciousness as reasons.' Black cars may or may not reflect sunlight. So nothing can be definitely assumed here. Option (c) is a contradiction. Hence (b).

67. If an Aegis resident is known to commute to a neighboring city for work and prefers to make their coffee at home, which of the following could be true?

- (a) The resident is a farmer who grows corn.
- (b) The resident is a doctor who drives a black car.

- (c) The resident is an engineer who drives a white car.
 (d) The resident is a teacher who walks to work.

Ans. c

Sol. Option (c) is correct because the passage states that professionals commuting to neighboring cities, such as engineers, usually own white cars. Additionally, these commuters prefer to make their coffee at home due to their early schedule, which aligns with the statement in the question. Option (a) is incorrect because the passage states that those who commute to neighboring cities are professionals such as engineers and architects, not farmers. Moreover, farmers who grow corn are said to ship their crops to neighboring cities, not commute there for work. Option (b) is incorrect because the passage states that many of the professionals working in Aegis, such as doctors, drive black cars and are regular customers of Prolific Café. It doesn't align with the information that the resident prefers to make their coffee at home. Option (d) is incorrect because the passage states that professionals who work in Aegis, such as teachers, prefer walking or cycling to work. These individuals are not mentioned to commute to neighboring cities, contradicting the given condition. Hence (c).

68. If it is known that a child carries a plain lunchbox and his father is a regular customer of Prolific Café, which of the following could be true?

- (a) The child attends Dawn Primary School and his father is a farmer who grows berries.
 (b) The child attends Dusk Middle School and his father is a lawyer who drives a black car.
 (c) The child attends Dusk Middle School and his father is an engineer who drives a white car.
 (d) The child attends Dawn Primary School and his father is a teacher who walks to work.

Ans. b

Sol. Option (b) is correct because the passage states that Dusk Middle School students carry plain lunchboxes, aligning with the information in the question. Additionally, it mentions that many professionals working in Aegis, including lawyers, drive black cars and are regular customers of Prolific Café. Option (a) is incorrect because the passage states that students of Dawn Primary School all have lunch boxes with their favorite superhero designs, not plain ones. Also, there's no direct connection between berry farmers and being regular customers of Prolific Café. Option (c) is incorrect because while the child attending Dusk Middle School aligns with the given condition, his father being an engineer who drives a white car does not. The passage states that residents who own white cars and commute to neighboring cities seldom visit the café due to their early commuting schedule. Option (d) is incorrect because the passage states that students of Dawn Primary School carry lunch boxes with superhero designs, not plain ones, which contradicts the given information. Although the father being a teacher who walks to work could be a regular customer of Prolific Café, this option fails due to the incorrect detail about the child's school. Hence (b).

69. Which of the following is a likely inference about the residents, as per the passage except;

- (a) A resident of Aegis can also be a farmer who does not grow berries or corn.
 (b) A resident can be a doctor who owns a black car and works in a neighboring city of Aegis.
 (c) Professionals are usually directed towards being more environment friendly.

(d) An engineer who commutes for his work can be a regular customer at the Prolific Café.

Ans. c

Sol. Option (c) is correct because the passage states that professionals who commute to neighbouring cities, such as engineers, usually drive white cars. There is no mention of them using bicycles for commuting, which is a long and hot journey. The passage also states that professionals who work within Aegis, such as doctors, prefer walking or cycling to work. So it does not mean that farmers or engineers are not environment friendly. So option (c) cannot be inferred from the passage. The rest of the three options can be inferred as nothing has been said in a very definite manner and proper segregation of the profession, type of cars owned and visiting the café. Hence (c).

70. Which of the following cannot be concluded from the passage?

- (a) Berries are available in the local grocery stores.
- (b) Professionals working in Aegis maintain good health.
- (c) Black cars absorb the sunlight.
- (d) Berries have a short shelf life.

Ans. b

Sol. Option (b) is correct. It is understood from the following lines of the passage, 'In contrast, those professionals who work in Aegis prefer walking or cycling to work, citing health and environmental consciousness as reasons'. They prefer walking or cycling that does not mean that they would maintain good health always. Option (a) and option (d) can be concluded from the following lines of the passage. 'Those who grow apples always sell their produce at the local market on weekends. Farmers who cultivate berries, due to the delicate nature of their crops, have a specific selling arrangement with local grocery stores.' Hence (b).

71. Let the following premises be true: "If it is a weekend, Aegis farmers sell their produce at the local market." and "Today is not a weekend." Which of the following must be true?

- (a) Aegis farmers are selling their produce at the local market today.
- (b) Aegis farmers are not selling their produce at the local market today.
- (c) Aegis farmers are shipping their produce to neighboring cities today.
- (d) None of the above.

Ans. b

Sol. Option (b) is correct because the passage states that Aegis farmers sell their produce at the local market on weekends. Given that today is not a weekend, it is logical to infer that Aegis farmers are not selling their produce at the local market today. Option (a) is incorrect because the passage states that Aegis farmers sell their produce at the local market on weekends. Given that today is not a weekend, it contradicts the premise, making this option incorrect. Option (c) is incorrect because the passage states that farmers growing corn often ship their crops to neighbouring cities. It does not state that all Aegis farmers, regardless of what they grow, ship their produce to neighbouring cities, especially when it is not a weekend. Option (d) is incorrect because Option (b) has been established as the correct answer based on the information provided in the passage and the premises given in the question.

72. Let the following premises be true: "All Aegis residents who drive white cars commute to neighbouring cities for work," and "John, an Aegis resident, does not commute to a neighbouring city for work." Which of the following must be true?

- (a) John drives a white car. (b) John does not drive a white car.
 (c) John is a farmer who grows apples. (d) None of the above.

Ans. b

Sol. Option (b) is correct because the passage states that all Aegis residents who drive white cars commute to neighbouring cities for work. Since John does not commute to a neighbouring city for work, it is logical to infer that John does not drive a white car. Option (a) is incorrect because the passage states that all Aegis residents who drive white cars commute to neighbouring cities for work. Given that John does not commute to a neighbouring city for work, it contradicts the premise, making this option incorrect. Option (c) is incorrect because while it's possible that John is a farmer who grows apples, the passage and the given premises do not provide enough information to ascertain this as a fact. Option (d) is incorrect because Option (b) has been established as the correct answer based on the information provided in the passage and the premises given in the question.

Passage-VII

King Solomon, known for his wisdom and justice, rules over the kingdom of Serenity. His rule follows the principles of Gender-Neutral Primogeniture, where the eldest child regardless of gender is the first in line to the throne. King Solomon has three children: his eldest, Princess Alexandria, followed by Prince Benjamin, and lastly, the youngest, Princess Cassandra. Each of them is a strong leader, showing the wisdom of their father in their actions. Princess Alexandria is married to Lord Frederick, a nobleman from a neighboring kingdom. They have two children, a son, Prince Edward, and a daughter, Princess Gabrielle. Both are known for their intelligence and charisma. Prince Benjamin, the middle child, is unmarried but has an unmarried daughter, Princess Isabella, through an undisclosed mother. Isabella is curious and adventurous, much to the delight of her grandfather, King Solomon.

Princess Cassandra, the youngest, is married to Duke Julian. They have three children, twins Princess Katarina and Prince Leo, and their youngest, Prince Maximillian. Maximillian, despite being the youngest, demonstrates an extraordinary sense of responsibility and understanding for his tender age. King Solomon's siblings include Queen Victoria, the eldest, followed by King Ulysses, who rules a neighboring kingdom, and Prince William, the youngest. Queen Victoria has two sons, Prince Xavier and Prince Yannick, and a daughter, Princess Zoe. Prince William has no offspring but was married to the late Queen Adelaide. King Ulysses, the middle child, has a daughter, Princess Beatrice, who is known throughout the land for her beauty and wit. This family, with its intricate ties and complex hierarchy, governs the kingdom with wisdom and fairness. Yet, the question of succession has often been a topic of interest, given the different rules of succession that exist in their neighboring kingdoms. How the future of the kingdom would unfold under different rules of succession makes for an interesting conundrum.

Section - A: English

73. Which of the following can be a replacement of the word 'conundrum'?

- (a) Enigma (b) Mystery (c) Obscure (d) Archaic

Ans. a

Sol. Option (a) is correct. Conundrum is similar to a puzzle or dilemma. That means not exactly and clearly understood by many. Hence 'enigma' is the correct replacement. It means 'incomprehensible' unfathomable'. Mystery means something that is secretive and clandestine. Obscure is doubtful and ambiguous. Archaic is obsolete and outdated. Hence (a).

74. Select the option that negates the given opinion, based on the textual information: "The future of the kingdom is certain under the rule of King Solomon's descendants."

- (a) The future of the kingdom is uncertain because of different rules of succession.
- (b) Princess Alexandria will definitely rule after King Solomon, securing the kingdom's future.
- (c) The kingdom will face no issues as King Solomon's wisdom is inherent in his descendants.
- (d) The future of the kingdom depends on the neighboring kingdom's politics.

Ans. a

Sol. Option (a) is correct because the passage states that "the question of succession has often been a topic of interest, given the different rules of succession that exist in their neighboring kingdoms". This implies that there is uncertainty regarding the future of the kingdom under the rule of King Solomon's descendants. Option (b) is incorrect because, while the passage states that Princess Alexandria is the first in line for the throne according to Gender-Neutral Primogeniture, it does not confirm that she will certainly rule after King Solomon. Option (c) is incorrect because, despite King Solomon's descendants showing his wisdom in their actions, the passage does not guarantee that this will prevent issues in the future. Option (d) is incorrect because, while the passage does mention neighboring kingdoms, it does not directly relate their politics to the future of King Solomon's kingdom. Hence (a).

75. The word 'curious' in the line "Isabella is curious and adventurous, much to the delight of her grandfather, King Solomon.", refers to:

- (a) Isabella's quest for exploring the kingdom.
- (b) Isabella's interest in understanding matters of state.
- (c) Isabella's adventurous spirit.
- (d) Isabella's inclination towards learning.

Ans. d

Sol. Option (d) is correct because the word 'curious' typically refers to a strong desire to know or learn something. While the specific subject of Isabella's curiosity isn't explicitly stated, her trait of curiosity indicates a general inclination towards learning. Option (a) is incorrect because the passage does not specify that Isabella's curiosity is directed towards exploring the kingdom. Her curiosity could be about many things, and exploration is just one possibility. Option (b) is incorrect because the passage does not directly link Isabella's curiosity to an interest in understanding matters of state. Option (c) is incorrect because the trait of curiosity and adventurous spirit are stated separately in the passage, implying that they are distinct characteristics. Her curiosity is not directly described as part of her adventurous spirit. Hence (d).

76. Which of the following options captures the meaning of the last sentence best: "How the future of the kingdom would unfold under different rules of succession makes for an interesting conundrum."

- (a) The future of the kingdom is uncertain due to varying inheritance laws.
- (b) The kingdom's future depends solely on King Solomon's descendants.
- (c) The rules of succession in the kingdom are unclear.
- (d) The kingdom is in a state of turmoil due to the issue of succession.

Ans. a

Sol. Option (a) is correct because the last sentence refers to the future of the kingdom under different rules of succession as an interesting conundrum, which implies that there's uncertainty due to the variability of the inheritance laws. Option (b) is incorrect because while the future of the kingdom is influenced by King Solomon's descendants, the sentence particularly emphasizes the influence of different rules of succession, not the descendants themselves. Option (c) is incorrect because the passage doesn't state that the rules of succession in King Solomon's kingdom are unclear; instead, it suggests a conundrum due to different possible rules, not their clarity. Option (d) is incorrect because the word 'conundrum' suggests a puzzling or complex problem, but it doesn't imply that the kingdom is in a state of turmoil. The text indicates the future is an interesting conundrum, but it doesn't suggest an existing crisis or turmoil. Hence (a).

77. Which of the following is a grammatically correct statement in the given passage?

- (a) Isabella is curious and adventurous, much to the delights of her grandfather, King Solomon.
- (b) "This family, with its intricate ties and complex hierarchy, governs the kingdom with wisdom and fairness."
- (c) "Princess Beatrice, who is known through the land for her beauty and wit."
- (d) "Maximillian, despite of being the youngest, demonstrates an extraordinary sense of responsibility and understanding for his tender age."

Ans. b

Sol. Option (b) is correct Option (a) is incorrect because it should be 'much to the delight of' instead of 'much to the delights of'. Option (c) is incorrect as it should be 'throughout' instead of 'through' Option (d) is incorrect because it should be 'despite being the youngest' instead of 'despite of being the youngest'. Hence (b).

Section - B: Logical Reasoning

Instructions for question 78 - 83

Consider the given family as a Joint Hindu Family upon which the prescribed principles of Hindu Succession Act applies and not that is provided in the above passage.

Principle 1: A Joint Hindu Family originates from a common male ancestor who may be alive or dead and after whom there has been no partition in the family. With partition, separate Joint Hindu Families originate with their separate common male descendent. It consists of common male ancestor and his wife; his lineal male descendants together with their wives; unmarried daughter; children of male descendants whether legitimate or illegitimate; widow of male descendant; any adopted children. Married daughter and her children becomes part of the family of her husband.

Principle 2: The members of a family can be divided into two categories- Coparceners and Dependents. Coparceners are male members who are born in the Joint Hindu family and who are falling within four degrees of generation from the last male holder alive. A child in the womb of mother is also considered to be born in family. Before 2005, daughters were not considered coparceners but with 2005 Amendment, they also share same status as sons with respect of coparcenary but not her descendants with respect to son's descendant. The marital status does not hamper the coparcenary status. Further

adopted child is given the same status as a child born in the family from the date of adoption. Dependents are the members of Joint Hindu Family who are not coparceners like wife of the male coparcener or the descendants who are not within four degrees of generation from the last male holder alive.

Principle 3: A new degree of generation becomes coparcenary when the last male holder of coparcenary property dies. If he survives and any degree of generation below him dies, it won't add other degree of generation into coparcenary.

Principle 4: Succession of property of a Hindu male dying intestate: The property would devolve upon Class I heir of the Schedule, if there is no Class I heir then to Class II, if no class II then to agnates, if no agnates then to cognates. If there no one then the property will be escheat by the state.

Principle 5: Among the heirs specified in the Schedule, those in class I shall take simultaneously and to the exclusion of all other heirs; those in the first entry in class II shall be preferred to those in the second entry; those in the second entry shall be preferred to those in the third entry; and so on in succession.

Principle 6: Distribution of property among heirs in class I of the Schedule.—The property of an intestate shall be divided among the heirs in class I of the Schedule in accordance with the following rules:— Rule 1.—The intestate's widow, or if there are more widows than one, all the widows together, shall take one share. Rule 2.—The surviving sons and daughters and the mother of the intestate shall each take one share. Rule 3.—The heirs in the branch of each pre-deceased son or each pre-deceased daughter of the intestate shall take between them one share. Rule 4.—The distribution of the share referred to in Rule 3— (i) among the heirs in the branch of the pre-deceased son shall be so made that his widow (or widows together) and the surviving sons and daughters get equal portions; and the branch of his pre-deceased sons gets the same portion; (ii) among the heirs in the branch of the pre-deceased daughter shall be so made that the surviving sons and daughters get equal portions.

Principle 7: The property of an intestate shall be divided between the heirs specified in any one entry in class II of the Schedule so that they, share equally.

Principle 8: Class I consists of Son; daughter; widow; mother; son of a pre-deceased son; daughter of a pre-deceased son; son of a pre-deceased daughter; daughter of a pre-deceased daughter; widow of a pre-deceased son; son of a pre-deceased son of a pre-deceased son; daughter of a pre-deceased son of a pre-deceased son; widow of a pre-deceased son of a pre-deceased son, son of a predeceased daughter of a pre-deceased daughter; daughter of a pre-deceased daughter of a pre-deceased daughter; daughter of a pre-deceased son of a pre-deceased daughter; daughter of a pre-deceased daughter of a pre-deceased son.

Principle 9: Class II consists of I. Father. II. (1) Son's daughter's son, (2) son's daughter's daughter, (3) brother, (4) sister. III. (1) Daughter's son's son, (2) daughter's son's daughter, (3) daughter's daughter's son, (4) daughter's daughter's daughter.

78. Suppose Harry, father of Soloman, had died and the partition has been effected between the siblings. This created a new Joint Hindu Family of Soloman with him being the common male ancestor. Who all will be the members of the Joint Hindu Family from the options given below?

- (a) Soloman, Edward, Leo, Maximillian and Benjamin
- (b) Soloman, Maximillian and Benjamin
- (c) Soloman, Benjamin and Isabella
- (d) Soloman, Benjamin, Alexandria and Cassandra.

Ans. c

Sol. The passage provides that Joint Hindu Family consists of common male ancestor and his wife; his lineal male descendants together with their wives; unmarried daughter; children of male descendants whether legitimate or illegitimate; widow of male descendant; any adopted children. Hence Solomon, the common male ancestor, his son i.e. his male descendant Benjamin and Benjamin's illegitimate daughter, who is unmarried would only be the part of the Joint Hindu Family of Solomon.

79. Considering the facts provided in the previous question, who all would be considered coparcenary in the family as per the law before 2005 and after 2005?

Before 2005	After 2005
(a) Solomon, Benjamin	Soloman, Benjamin and Isabella
(b) Solomon, Benjamin	Soloman, Benjamin, Isabella, Alexandria and Cassandra
(c) Solomon, Benjamin	Soloman, Benjamin, Isabella, Alexandria, Cassandra, Edward, Gabrielle, Katarina, Leo, and Maximillian
(d) Solomon, Benjamin	Soloman, Benjamin

Ans. b

Sol. As per the passage, Coparceners are male members who are born in the Joint Hindu family and who are falling within four degrees of generation from the last male holder alive. A child in the womb of mother is also considered to be born in family. Before 2005, daughters were not considered coparceners but with 2005 Amendment, they also share same status as sons with respect of coparcenary but not her descendants with respect to son's descendant. The marital status does not hamper the coparcenary status. Therefore before 2005 only Solomon and Benjamin are coparcenary while after 2005, Isabella, Alexandria and Cassandra will also be included as coparcenary regardless of their marital status. But their children would not be coparcenary in the family of Solomon.

80. Suppose that Julian, a Hindu dies intestate leaving behind her widow, children and his father and two brothers. His property has be devolved to his successors. Who all will get a share from his property upon succession as per the principles provided above?

- (a) His widow, his father and his children (b) His father, his brother, his widow and his children
 (c) His children only (d) His widow and his children only.

Ans. d

Sol. The passage provides that among the heirs specified in the Schedule, those in class I shall take simultaneously and to the exclusion of all other heirs. Class I consists of Son; daughter; widow. Therefore they would get a share and their presence would exclude the right of his father and brothers to get share in his property as they are in class II.

81. Considering the facts provided in the previous question, what would be the share of all the heirs individually?

- (a) One-seventh (b) One-fifth (c) One-fourth (d) One-third

Ans. c

Sol. The passage provides that the intestate's widow, or if there are more widows than one, all the widows together, shall take one share. The surviving sons and daughters and the mother of the intestate shall each take one share. As here there is only one widow, therefore she would take one share, there are 3 children so each will take one share each. Further there is no mother as per the detail provided in the question, so there are only 4 individuals who will get one share each in the property of Julian. Hence the individual share is one-fourth.

82. Consider that Soloman dies intestate leaving behind Alexandria and her children, Benjamin and his daughter and children of pre-deceased Cassandra. On the death of Soloman, his property has to devolve to his successors. Who all would get a share in the property of the deceased?

(a) Alexandria and Benjamin

(b) Alexandria, Edward, Gabrielle, Benjamin and Isabella

(c) Alexandria, Edward, Gabrielle, Benjamin, Isabella, Katarina, Leo and Maximillian

(d) Alexandria, Benjamin, Katarina, Leo and Maximillian

Ans. d

Sol. As per the passage Class I consists of Son; daughter; widow; mother; son of a pre-deceased son; daughter of a pre-deceased son; son of a pre-deceased daughter; daughter of a pre-deceased daughter. Son or daughter of living son and daughter are not included in the list. Therefore children of Alexandria and Benjamin would not be the heirs as their parent who is a successor are still living. Children of Cassandra would get the share of Cassandra as she did not survive Soloman. Hence her share would be divided among her children. Hence (d)

83. Considering the facts provided in the previous question, what would be the share of Katarina?

(a) One-third

(b) One-ninth

(c) One- eight

(d) One-twelfth

Ans. b

Sol. As per the passage Class I consists of Son; daughter; widow; mother; son of a pre-deceased son; daughter of a pre-deceased son; son of a pre-deceased daughter; daughter of a pre-deceased daughter. Rule 3.—The heirs in the branch of each pre-deceased son or each pre-deceased daughter of the intestate shall take between them one share. Rule 4.—The distribution of the share referred to in Rule 3—(ii) among the heirs in the branch of the pre-deceased daughter shall be so made that the surviving sons and daughters get equal portions. Hence children of Cassandra would get the share of Cassandra as she did not survive Soloman. Hence her share would be divided among her children. As Soloman had 3 children, each would have got one-third share each, but Cassandra didn't survive Soloman. Hence her share ($1/3^{\text{rd}}$) would be equally divided among her 3 children. Hence her children would get a share of $1/9^{\text{th}}$ each.

84. Based on the passage, what can be inferred as common between the understanding of Princess Alexandria and Prince Maximillian?

(a) Their inheritance of King Solomon's wisdom.

(b) Their birth order in their respective families.

(c) Their leadership styles, demonstrating charisma and a sense of responsibility.

(d) Their marital status and offspring.

Ans. a

Sol. Option (a) is correct because the passage states that each of King Solomon's children, including Princess Alexandria and Prince Maximillian, shows the wisdom of their father in their actions. Option (b) is incorrect because the passage states that Princess Alexandria is the eldest child of King Solomon while Prince Maximillian is the youngest child of Princess Cassandra. Option (c) is incorrect because the passage does not provide direct information about Princess Alexandria's leadership style. It only states that Prince Maximillian demonstrates an extraordinary sense of responsibility. Princess Alexandria's children, not herself, are described as intelligent and charismatic. Option (d) is incorrect because the passage states that Princess Alexandria is married and has two children, while the marital status or offspring of Prince Maximillian is not mentioned. Hence (a)

Passage-VIII

In a time long ago, in a world that exists parallel to ours, there was a kingdom known as Zephyria. Zephyria was home to magnificent structures, some natural, others, architectural marvels of their era. Among the grand creations of Zephyria were five splendid edifices, named Alpha, Beta, Gamma, Delta, and Epsilon. These structures, known for their elaborate designs, held historical and cultural significance for Zephyrians and were declared as protected heritage sites by the Zephyrian government. These structures were built according to a unique geometric pattern. Four of them, Alpha, Beta, Gamma, and Delta, formed the vertices of a square if one were to look at Zephyria's map from above. Epsilon was situated exactly at the point where the diagonals of the square intersected, maintaining the harmony of the square. Interestingly, if one were to draw a straight line across Zephyria's landscape, it would cross through Alpha, Beta, and Epsilon in no particular order. This line pointed in a south-east to north-west direction, a peculiarity that puzzled many. Beta, unlike Alpha and Delta, didn't have a view of any other structure when looking directly east. From Delta, however, one could see another tower when looking directly north.

The sun always set in Zephyria in a direction that was opposite to where Alpha was from Epsilon. The sunrise direction from Alpha was exactly perpendicular to the line from Alpha to Beta. The Zephyrians had a unique way of measuring time based on the position of the sun. They used a Zephyrian compass, an advanced tool that consisted of a magnetic needle pointing towards magnetic north, and a circular piece of paper with directions written on it. There were rumors that the circular piece could rotate, adding to the mystery of the Zephyrian civilization. One day, a Zephyrian standing at Alpha noticed that at sunrise, his compass pointed towards "SW". He suspected that the compass had rotated, a phenomenon unheard of in Zephyria. The Zephyrians were eager to understand this peculiar event, its causes, and its implications.

This kingdom and its mysterious structures offer a wealth of possibilities for anyone interested in probing its secrets. These five structures and their unique positioning have given birth to numerous puzzles and mysteries, captivating explorers and scientists alike. Now, it's up to you to decipher the secrets of this ancient civilization and their unique directional system.

Section - A: English

85. If the Zephyrian compass rotation is right, which of the following statements is true?

- (a) Sunrise in Zephyria is in the SW direction
- (b) Sunrise in Zephyria is in the NW direction
- (c) The Zephyrian compass points towards magnetic south
- (d) The Zephyrian compass is unaffected by rotation

Ans. a

Sol. Option (a) is correct because the passage states that "a Zephyrian standing at Alpha noticed that at sunrise, his compass pointed towards 'SW'." This suggests that the rotation of the compass needle has caused the sunrise direction to be perceived as "SW". Option (b) is incorrect because the passage states that "This line pointed in a south-east to north-west direction," which refers to the line drawn across Zephyria's landscape that crossed through Alpha, Beta, and Gamma. However, this is not connected to the direction of sunrise. Option (c) is incorrect because the passage only refers to the Zephyrian compass pointing towards magnetic north, with no reference made to it pointing towards magnetic south. Option (d) is incorrect because the passage mentions a possible rotation of the compass: "There were rumors that the circular piece could rotate," and the occurrence of this rotation was suspected by a Zephyrian standing at Alpha, indicating that the compass is, indeed, affected by rotation. Hence (a).

86. In the line, "These structures, known for their elaborate designs, held historical and cultural significance..." which of the following words from the passage most nearly means 'elaborate'?

- (a) Splendid (b) Magnificent (c) Unique (d) Mysterious

Ans. c

Sol. Option (c) is correct because 'unique' implies something distinct and special, which can be connected to the detailed, or 'elaborate' designs of the structures. The passage mentions "unique geometric pattern" and "unique way of measuring time," indicating a level of complexity or detail in Zephyrian culture and architecture. Option (a) is incorrect because the word 'splendid' from the passage is used to describe the grandeur or beauty of the structures, not the intricacy of their designs. Option (b) is incorrect because the word 'magnificent' is used to describe the structures and the kingdom of Zephyria at large, signifying their grandeur, not the detailed nature of their designs. Option (d) is incorrect because 'mysterious' implies something that is not fully understood or known, which doesn't necessarily correspond to 'elaborate', which suggests detailed and careful design. The passage refers to the "mysterious structures" and "mystery of the Zephyrian civilization," emphasizing the enigmatic aspects of the Zephyrian structures rather than their elaborate designs. Hence (c).

87. Select the option that corresponds to a 'peculiarity'.

- (a) The square formation of the structures
 (b) The Zephyrian way of measuring time
 (c) The architectural marvels
 (d) The south-east to north-west direction of the line crossing through Alpha, Beta, and Gamma

Ans. d

Sol. Option (d) is correct because the passage states that "this line pointed in a south-east to north-west direction, a peculiarity that puzzled many." This indicates that the direction of the line was unusual or odd, fitting the meaning of 'peculiarity.' Option (a) is incorrect because the square formation of the structures is not presented as a peculiarity, but rather as part of the design of the structures. Option (b) is incorrect because the Zephyrian way of measuring time is described as "unique," but not as peculiar or unusual in the sense of being strange or odd. Rather, it is part of their advanced culture. Option (c) is incorrect because the architectural marvels of Zephyria

are described as "magnificent" and "splendid," not peculiar. They are seen as part of Zephyria's grandeur and historical significance, not as odd or unusual. Hence (d).

88. Which action suitably corresponds with 'rotated' as used in the context of the Zephyrian compass?

- (a) The shifting of the sun's position
- (b) The construction of the Zephyrian structures
- (c) The lining up of Alpha, Beta, and Gamma
- (d) The positioning of Epsilon at the intersection of the diagonals

Ans. d

Sol. Option (d) is correct because it pertains to the rotation of a point (Epsilon) around a center (the intersection of diagonals of a square formed by Alpha, Beta, Gamma, Delta). This mirrors the rotation concept of the compass, making it the most appropriate action corresponding to 'rotated' in this context. Option (a) is incorrect because, although the sun's position shifts throughout the day, the passage does not link this movement to the concept of rotation, which is specifically associated with the Zephyrian compass. Option (b) is incorrect because the construction of the Zephyrian structures is described in terms of design and formation, not rotation. Option (c) is incorrect because the alignment of Alpha, Beta, and Gamma on a line across Zephyria's landscape is presented as a straight line movement rather than a rotating one. Hence (d).

89. "One day, a Zephyrian standing at Alpha noticed that at sunrise, his compass pointed towards 'SW'." Which of the following is the most convincing conclusion from this statement?

- (a) The Zephyrian compass is faulty.
- (b) Sunrise in Zephyria always occurs in the SW direction.
- (c) The circular piece of the Zephyrian compass has likely rotated.
- (d) The Zephyrian at Alpha was looking in the wrong direction.

Ans. c

Sol. Option (c) is correct because the passage mentions that "There were rumors that the circular piece could rotate," and the event described matches this possibility, implying that the compass has likely experienced this rotation. Option (a) is incorrect because the passage does not provide evidence that the Zephyrian compass is faulty. It merely states that the compass pointed to 'SW' at sunrise. Option (b) is incorrect because the passage states that "The sunrise direction from Alpha was exactly perpendicular to the line from Alpha to Beta." This suggests that the direction of sunrise changes relative to the observer's location and does not always occur in the SW direction. Option (d) is incorrect because the passage provides no indication that the Zephyrian at Alpha was looking in the wrong direction. Instead, it presents the observation of the compass pointing towards 'SW' at sunrise as a significant event. Hence (c).

Section - B: Logical Reasoning

90. If a Zephyrian is standing at Beta and wants to travel to Epsilon, which direction should they go?

- (a) North-East
- (b) South-East
- (c) North-West
- (d) South-West

Ans. c

Sol. Option (c) North-West is correct because the passage states that Alpha, Beta, and Epsilon are along a straight line that runs from south-east to north-west, and Epsilon is situated exactly where the diagonals of the square (formed by Alpha, Beta, Gamma, and

Delta) intersect. Since Beta can't see any tower to the east, Epsilon (the center of the square) must be to the North-West of Beta.

91. A Zephyrian standing at Delta observes the sunrise and notes the direction on his Zephyrian compass. However, the compass paper has rotated an unknown degree. If the Zephyrian sees the direction of the sunrise as "NW" on the compass, how many degrees and in what direction has the compass paper rotated?

- (a) 45 degrees clockwise (b) 45 degrees counter-clockwise
 (c) 90 degrees counter-clockwise (d) 90 degrees clockwise

Ans. c

Sol. Option (c) 90 degrees counter-clockwise is correct because if the compass paper had rotated 90 degrees counter-clockwise, "NW" would be where "NE" should be, which is the direction of the sunrise. This matches the observation of the Zephyrian who sees the direction of sunrise as "NW" on the compass.

92. The Zephyrian standing at Gamma wants to travel to Delta. Keeping in mind the arrangement of the towers, which direction should he go?

- (a) North-East (b) South-East (c) North-West (d) South-West

Ans. d

Sol. Option (d) South-West is correct because, according to the passage, Alpha, Beta, and Epsilon are on a straight line from south-east to north-west. Given this, and the fact that Delta is one of the vertices of the square (not in the line of Alpha, Beta, and Gamma), it would be logical for Delta to be to the South-West of Gamma.

93. At sunset, the shadow of the tower Gamma points in which direction?

- (a) Towards Alpha (b) Towards Beta (c) Towards Delta (d) None of the above

Ans. d

Sol. Option (d) is correct because according to the passage, Alpha, Beta, and Epsilon are on a straight line from south-east to north-west. Given this, and sun is setting in SE direction. Hence shadow will be formed in NW direction.

94. Suppose a Zephyrian is holding a compass at Alpha. The compass, consisting of a magnetic needle that points towards the magnetic north and a circular piece of paper with directions written on it, has had the piece of paper rotated a quarter-circle counter-clockwise. Given this scenario, which geographic direction does the needle point towards now?

- (a) East (b) South (c) North (d) None of the Above

Ans. d

Sol. Option (d) is correct because None of the Above Options are correct. If piece of paper is rotated by quarter-circle (90 degrees) in counter-clockwise direction then needle will be pointing towards West.

95. At sunrise, a Zephyrian at Beta is holding a compass. He points it towards the direction of the sunrise and sees that it reads "SE". How much and in what direction has the compass paper rotated?

- (a) 45 degrees counter-clockwise or 315 degrees clockwise
 (b) 90 degrees clockwise or 270 degrees counter-clockwise
 (c) 135 degrees counter-clockwise or 225 degrees clockwise
 (d) 135 degrees clockwise or 225 degrees counter-clockwise

Ans. b

Sol. Option (b) 90 degrees clockwise or 270 degrees counter-clockwise is correct because if the compass paper had rotated 90 degrees clockwise or 270 degrees counter-clockwise, the sunrise would appear to be in the "NE" direction, matching the Zephyrian's observation.

96. Considering the rotation of the compass as described in question 95, which is the actual direction reflected by the 'South' in the compass?

- (a) North (b) South (c) East (d) West

Ans. c

Sol. Option (c) East is correct because the compass paper had rotated 90 degrees clockwise or 270 degrees counter-clockwise. With this rotation, the actual direction of East would now be indicated as "S" on the compass.

Passage-IX

The Digital Renaissance of the 21st Century has accelerated at an unprecedented pace, heralding an era of technological growth that has transformed every aspect of society. The advent of sophisticated artificial intelligence systems, the expansive reach of internet connectivity, and the fast-evolving digital infrastructure have set the stage for a profound paradigm shift. The relationship between human society and technology has become deeply intertwined, forming a complex tapestry of influences that transcend borders and challenge traditional norms. Central to this metamorphosis is the role of AI and Machine Learning, which have evolved from mere theoretical concepts to tangible tools of transformation. These technologies have permeated various sectors, from healthcare and education to business and governance, creating a plethora of opportunities and challenges. In the healthcare sector, AI has revolutionized the diagnostic process, identifying patterns and correlations in complex datasets beyond the capability of the human mind. Personalized treatments, informed by AI-driven analytics, have improved patient outcomes, making strides in combating diseases like cancer and Alzheimer's. Meanwhile, in the field of education, adaptive learning systems have customized curriculums to suit individual student needs, leveling the playing field and fostering inclusivity. Business landscapes have seen AI becoming a formidable force. Predictive analytics informs strategic decisions, optimizing operations and fueling growth. The implications of AI in corporate decision-making have been profound, redefining the concepts of competition and innovation. In governance, AI is employed in areas like infrastructure management, crime detection, and citizen engagement, promising increased efficiency and transparency.

Yet, the omnipresence of AI and the consequent digitization of life raise pertinent questions about ethics, privacy, and security. The widespread use of AI and digital technologies have made individuals more vulnerable to data breaches, identity thefts, and cyber-attacks. There is also the looming concern about the potential for AI to become overly autonomous, leading to scenarios where machines could make decisions that impact human lives without oversight or control. Moreover, the integration of AI in everyday life has implications for jobs and the economy. On one hand, it can eliminate certain job categories, leading to job displacement. On the other hand, it can create new job roles requiring specialized skills, triggering a shift in the global job market. In this brave new world, striking the right balance between harnessing the power of AI and managing its risks is paramount. The need for an ethical framework and appropriate regulation has never been more critical. As society navigates this complex territory, it is

essential to foster a dialogue that is inclusive, forward-thinking, and constructive, bringing together all stakeholders – tech companies, governments, civil societies, and individuals. As the Digital Renaissance unfolds, the question remains: How will society embrace these changes and guide the trajectory of AI and technology? The choices we make today will shape the world of tomorrow, molding a future where technology serves as a tool for growth, equality, and sustainability.

Section - A: English

97. "AI has revolutionized the diagnostic process, identifying patterns and correlations in complex datasets beyond the capability of the human mind." This sentence implies that:

- (a) Human mind is incapable of complex data processing.
- (b) AI can replace human efforts in the healthcare sector completely.
- (c) AI has the potential to make significant contributions to healthcare, particularly in diagnostics.
- (d) All healthcare data is complex and beyond human understanding.

Ans. c

Sol. Option (c) is correct because the passage states that AI has revolutionized the diagnostic process in healthcare by identifying patterns and correlations in complex datasets that surpass human capabilities. This sentence implies the potential of AI to make significant contributions to healthcare, particularly in diagnostics. Option (a) is incorrect because the passage does not state that the human mind is incapable of complex data processing. Rather, it suggests that AI is capable of identifying patterns and correlations in complex datasets beyond the scope of human capability, not that humans are completely incapable. Option (b) is incorrect because while the passage acknowledges the profound impact of AI on diagnostics in healthcare, it does not suggest that AI can completely replace human efforts in this sector. AI is presented as a tool that complements and enhances human capabilities, not a substitute for human intelligence and judgment.

Option (d) is incorrect because the passage does not assert that all healthcare data is complex and beyond human understanding. It states that AI has the capability to process complex datasets, which suggests that while some healthcare data may be complex, it does not mean all data falls under this category. Hence (c).

98. Which of the following categories best describes this piece of writing?

- (a) Science Fiction (b) Autobiography (c) Expository Essay (d) Travelogue

Ans. c

Sol. Option (c) is correct because the passage provides a detailed explanation of a topic - the influence and implications of AI and machine learning in various sectors of society. This fits the description of an expository essay, which explains, illustrates, or clarifies a topic. Option (a) is incorrect because this piece of writing does not depict imaginative and futuristic concepts such as advanced science and technology. It discusses real-world implications and uses of AI and digital technologies. Option (b) is incorrect because an autobiography is a narrative of a person's life written by that person. This passage does not share personal experiences or life events of the author, but rather provides a discussion on the role and impact of AI and technology in society. Option (d) is incorrect because a travelogue involves the documentation of a person's travel experiences, which this passage does not cover. The focus is on the influence of AI and technology in different sectors, not on any geographical exploration or travel experience.

99. "The relationship between human society and technology has become deeply intertwined, forming a complex tapestry of influences that transcend borders and challenge traditional norms." Which of the following is the most convincing conclusion from this statement?

- (a) Technology has created barriers in human society.
- (b) Technology has reshaped human society in complex and profound ways, breaking traditional norms.
- (c) The influence of technology is limited to certain geographical regions.
- (d) Traditional norms have remained untouched by the advent of technology.

Ans. b

Sol. Option (b) is correct because the passage asserts that technology and society have become deeply intertwined, forming a complex tapestry of influences that go beyond geographical limitations and challenge traditional norms. This implies that technology has reshaped society in complex and profound ways, breaking traditional boundaries. Option (a) is incorrect because the passage does not imply that technology has created barriers in human society. Instead, it suggests a deep intertwining of technology and society, indicating a close relationship rather than a division or barrier. Option (c) is incorrect because the passage explicitly states that the influences of technology "transcend borders," which suggests that the impact of technology is global and not limited to certain regions. Option (d) is incorrect because the passage mentions that the influences of technology "challenge traditional norms." This means that traditional norms have been touched and likely altered by the advent of technology, contradicting the idea that they remain untouched. Hence (b).

100. "The need for an ethical framework and appropriate regulation has never been more critical." In elaboration of this sentence, which of these options follows?

- (a) The misuse of AI and digital technologies can be completely prevented with strict laws.
- (b) A balance is needed between the exploitation of AI's benefits and the management of its potential risks.
- (c) AI technologies have no inherent risks or ethical considerations.
- (d) The role of AI in various sectors is not significant enough to warrant regulation or ethical considerations.

Ans. b

Sol. Option (b) is correct because the passage expresses concern over the risks associated with AI and the digitization of life, such as data breaches, identity thefts, and potential autonomous AI decisions that could impact human lives. It underscores the need for an ethical framework and appropriate regulation to strike a balance between harnessing the power of AI and managing its risks. Option (a) is incorrect because the passage does not suggest that strict laws can completely prevent the misuse of AI and digital technologies. The focus is on the need for an ethical framework and appropriate regulation, not absolute prevention of misuse. Option (c) is incorrect because the passage directly contradicts this statement by highlighting several ethical considerations and risks related to AI, such as privacy and security concerns, and the potential for AI to make impactful decisions without human oversight. Option (d) is incorrect because the passage discusses the profound and extensive influence of AI in various sectors, like healthcare, education, business, and governance. This significant role warrants ethical considerations and regulation, contrary to what this option suggests. Hence (b).

101. Which of the following can replace the word 'formidable' in the sentence 'Business landscapes have seen AI becoming a formidable force.'

- (a) impressive (b) daunting (c) powerful (d) threatening

Ans. c

Sol. Option (c) is correct the word 'formidable', in context of AI, in the sentence means, that it has become a very powerful and strong force, something that will be difficult to deal with. The rest of the options can also seem to be the synonyms of the word 'formidable' but they are not the contextual meaning of it. Hence (c).

Section - B: Logical Reasoning

102. Which of the following assertions is/are explicitly made about the role of artificial intelligence (AI) and machine learning in the Digital Renaissance of the 21st Century, according to the passage?

- (a) AI and machine learning have revolutionized only the healthcare sector.
 (b) AI has brought both opportunities and challenges across multiple sectors.
 (c) AI and machine learning have eradicated ethical, privacy, and security concerns.
 (d) The advent of AI and machine learning has led to job displacement across all sectors.

Ans. b

Sol. Option (b) is correct because the passage explicitly mentions that these technologies have created a plethora of opportunities and challenges across various sectors. Option (a) is incorrect because the passage states that AI and machine learning have not only revolutionized the healthcare sector but have also permeated various other sectors such as education, business, and governance. Option (c) is incorrect because the passage actually states the contrary. It says that the widespread use of AI and digital technologies have raised pertinent questions about ethics, privacy, and security, making individuals more vulnerable to data breaches, identity thefts, and cyber-attacks. Option (d) is incorrect because the passage suggests that the advent of AI and machine learning could lead to job displacement in certain sectors, not all. It also mentions the potential creation of new job roles requiring specialized skills. Hence (b).

103. As per the passage, what can be inferred about the relationship between Artificial Intelligence and the global job market?

- (a) AI is only responsible for eliminating jobs with no contribution to job creation.
 (b) AI leads to job displacement but also contributes to the creation of new job roles requiring specialized skills.
 (c) AI's integration into everyday life has no implications for jobs and the economy.
 (d) All job roles requiring specialized skills are only because of AI.

Ans. b

Sol. Option (b) is correct as it aligns with the information provided in the passage. The passage states that AI has implications for job displacement but also contributes to the creation of new roles that require specialized skills. Option (a) is incorrect because the passage indicates that while AI could lead to job displacement, it also has the potential to create new job roles requiring specialized skills. Option (c) is incorrect because the passage explicitly mentions that the integration of AI into everyday life does indeed have implications for jobs and the economy, influencing both job displacement and the creation of new roles. Option (d) is incorrect because the passage does not state that all job roles requiring specialized skills are only because of AI. The passage mentions AI as one factor among potentially many others. Hence (b).

104. Based on the information provided in the passage, what can be inferred about the impact of AI on societal norms and structures?

- (a) AI has little to no effect on societal norms and structures.
- (b) AI is solely responsible for transforming societal norms and structures.
- (c) The Digital Renaissance and AI together have significantly transformed societal norms and structures.
- (d) Traditional societal norms and structures have completely resisted the impact of AI.

Ans. c

Sol. Option (c) is correct because the passage clearly indicates that both the Digital Renaissance and AI have played significant roles in transforming societal norms and structures. Option (a) is incorrect because the passage explicitly mentions that the relationship between human society and technology, including AI, has become deeply intertwined, leading to significant changes in societal norms and structures. Option (b) is incorrect as the passage does not solely attribute the transformation of societal norms and structures to AI. It mentions AI as part of a larger paradigm shift caused by the Digital Renaissance, which includes the expansive reach of internet connectivity and fast-evolving digital infrastructure. Option (d) is incorrect because the passage directly contradicts this. It states that the Digital Renaissance has challenged traditional norms and that AI is central to this transformation. Hence (c).

105. Which of the following statements, based on the passage, best describes the potential challenges associated with the widespread use of AI?

- (a) The usage of AI brings only benefits without any significant challenges.
- (b) The widespread use of AI could lead to vulnerabilities such as data breaches, identity thefts, and cyber-attacks.
- (c) The widespread use of AI completely negates any possibilities of data breaches, identity thefts, and cyber-attacks.
- (d) The primary concern regarding the widespread use of AI is its impact on the global job market.

Ans. b

Sol. Option (b) is correct because the passage explicitly states that the widespread use of AI and digital technologies have made individuals more vulnerable to data breaches, identity thefts, and cyber-attacks. Option (a) is incorrect because the passage does not claim that AI brings only benefits without any significant challenges. In fact, it mentions multiple challenges such as ethical, privacy, and security concerns, as well as implications for the job market. Option (c) is incorrect because the passage states the opposite. It suggests that the widespread use of AI has raised significant security concerns, including data breaches, identity thefts, and cyber-attacks. Option (d) is incorrect because while the passage does highlight concerns about the impact of AI on the global job market, it does not present this as the primary concern. Other significant concerns, such as ethical, privacy, and security issues, are also explicitly mentioned. Hence (b).

106. Based on the information in the passage, which of the following scenarios is most likely to happen in the wake of the Digital Renaissance and the rise of AI?

- (a) Entire job sectors will be eliminated with no prospects of new job roles being created.
- (b) All societal norms and structures will resist the influence of AI and remain unchanged.

(c) Individuals will become more vulnerable to data breaches, identity thefts, and cyber-attacks, and job roles requiring specialized skills will emerge.

(d) AI will eliminate all concerns related to ethics, privacy, and security.

Ans. c

Sol. Option (c) is correct because this scenario is the most consistent with the information in the passage. It acknowledges both the potential increased vulnerability to data breaches, identity thefts, and cyber-attacks and the emergence of job roles requiring specialized skills as consequences of the rise of AI. Option (a) is incorrect because the passage states that while some job roles may be displaced due to the rise of AI, there's also the potential for new job roles requiring specialized skills to emerge. Option (b) is incorrect because the passage directly contradicts this. It mentions that the Digital Renaissance, in which AI plays a significant role, is transforming societal norms and structures. Option (d) is incorrect because the passage clearly states that the rise of AI has actually led to increased concerns related to ethics, privacy, and security. Hence (c).

107. Based on the passage, which of the following best describes the implications of the Digital Renaissance on the education sector?

(a) The Digital Renaissance has brought about no significant changes in the education sector.

(b) The advent of AI has led to a drastic transformation in the learning process, creating equity and inclusivity in the sector.

(c) The integration of AI has simplified the learning process, eradicating all challenges and difficulties.

(d) AI has caused a significant job displacement in the education sector.

Ans. b

Sol. Option (b) is correct as it aligns with the passage's assertion that AI has brought both opportunities and challenges across multiple sectors, including education. This suggests a transformation in the learning process. Option (a) is incorrect because the passage does not support the claim that the Digital Renaissance has brought no significant changes in the education sector. On the contrary, it is indicated that AI and digital technologies have permeated various sectors including education. Option (c) is incorrect because the passage does not claim that the integration of AI has eradicated all challenges and difficulties in the learning process. While it acknowledges the opportunities provided by AI, it also highlights the potential challenges. Option (d) is incorrect as the passage does not specifically state that AI has caused significant job displacement in the education sector. It generally speaks about potential job displacement in certain sectors due to the rise of AI, but does not single out education. Hence (b).

108. Based on the passage, we know that both AI technology and the Digital Renaissance are transforming societal norms and structures. As a social scientist, you conduct a series of investigations to determine their impact. The details of the investigations and their results are as follows:

i. Check if the Digital Renaissance, excluding AI technologies, significantly influences societal norms and structures. The results show a noticeable transformation. The degree of this transformation is measured as X units.

ii. Separately, check if AI technologies in a context divorced from the Digital Renaissance affect societal norms and structures. The results show no significant impact.

iii. Separately, check if AI technologies integrated within the framework of the Digital Renaissance affect societal norms and structures. The results show a remarkable transformation, with the degree of impact measured as 2X units.

What, if anything, can be concluded from these investigations?

- (a) AI technologies are always instrumental in transforming societal norms and structures.
- (b) AI technologies significantly transform societal norms and structures only when integrated within the framework of the Digital Renaissance.
- (c) The Digital Renaissance poses no significant transformation of societal norms and structures without AI technologies.
- (d) None of the above conclusions can be drawn.

Ans. b

Sol. Option (b) is correct because the investigation showed a remarkable transformation (2X units) of societal norms and structures when AI technologies were integrated within the framework of the Digital Renaissance. Option (a) is incorrect because the investigation found no significant impact of AI technologies on societal norms and structures when considered outside the context of the Digital Renaissance. Option (c) is incorrect because the investigation found a noticeable transformation (X units) in societal norms and structures due to the Digital Renaissance, even excluding AI technologies. Option (d) is incorrect because the correct conclusion can be drawn, as mentioned in Option (b).

Passage-X

In a remote region of the ancient land of Minerva, there existed an intricate and legendary maze, known to be a creation of the celebrated architect, Lycomedes. This colossal maze was surrounded by four towers, each named after the four great winds of the world: Zephyrus (West), Eurus (East), Boreas (North), and Notus (South). In the heart of the maze stood a magnificent fountain named Aether, believed to be a portal to another realm. The labyrinth was constructed on a plain with the towers at its corners. Due to its immense size, it was said that anyone who entered would need the wisdom of Athena to exit. The towers served as essential landmarks for adventurers navigating the twists and turns of the maze.

Narrative Details:

- ☐ Boreas and Notus were aligned perfectly on the North-South axis, while Zephyrus and Eurus lay on the East-West axis.
- ☐ In the mornings, the shadow of Eurus always fell upon the entrance of the maze, which was on the western edge, signifying the start of another challenge-filled day for the brave souls attempting to navigate the maze.
- ☐ It was said that the fountain Aether had mystical properties. At dawn, it would emit a radiant blue glow pointing toward Zephyrus, and by dusk, its glow would pivot towards Boreas.
- ☐ Many legends spoke of a hidden underground tunnel running from Notus to Eurus, but its entrance remained a mystery. However, a tattered old scroll found in the library of Minerva hinted that the entrance to this tunnel lay "where the shadow of Boreas meets Aether."
- ☐ One of the most intriguing aspects of the maze was a series of rotating signposts scattered throughout. These signposts had inscriptions of various cities in Minerva. By evening, it was observed that they always pointed towards Notus, no matter their location in the maze.

- ❑ Legend had it that on the rare day when the North Star could be seen directly above Aether, the maze would reconfigure its pathways, making the challenge of navigating it even more complex.
- ❑ Lycomedes, in his memoirs, revealed a clue: "When standing at the entrance, with Eurys to your right and the sun behind, the path leading to Aether is directly in front. But beware the misleading turns that ensue."

Archaeologists, scholars, and adventurers have long been fascinated by the maze, with many attempting to uncover its secrets. The labyrinth has been a subject of research, poems, and songs, with its tales echoing through the corridors of time, adding to the rich tapestry of Minervan lore.

Section - A: English

109. "Boreas and Notus were aligned perfectly on the North-South axis, while Zephyrus and Eurys lay on the East-West axis." this sentence implies that:

- (a) The maze had an entrance on every side.
- (b) The towers were randomly placed around the maze.
- (c) The placement of the towers was based on cardinal directions.
- (d) The fountain Aether was aligned with Zephyrus and Eurys.

Ans. c

Sol. Option (c) is correct because the passage specifically states the alignment of the towers in relation to the North-South and East-West axis, which are cardinal directions. Option (a) is incorrect because the passage states that the entrance of the maze was on the western edge, not on every side. Option (b) is incorrect because the passage states that the towers were named after the four great winds of the world and were aligned perfectly based on the North-South and East-West axis, indicating deliberate placement. Option (d) is incorrect because while there are references to Aether in the passage, it does not specify that the fountain was aligned with Zephyrus and Eurys in the same manner as the towers. Hence (c).

110. Which of the following categories best describes this piece of writing?

- (a) A scientific report on the winds.
- (b) An autobiography of Lycomedes.
- (c) A fictional narrative about a historical maze.
- (d) An instructional guide on maze navigation.

Ans. c

Sol. Option (c) is correct because the passage revolves around a legendary maze in the land of Minerva, its towers, and various legends and stories related to it, marking it as a narrative about a historical or legendary setting. Option (a) is incorrect because the passage, while mentioning the names of winds for the towers, does not delve into a scientific explanation or study of these winds. Option (b) is incorrect because the passage states that the maze was a creation of Lycomedes and talks about his memoirs, but it is not entirely about his life or personal experiences. Option (d) is incorrect because the passage, while describing features and clues about the maze, does not provide a step-by-step guide or instructions on how to navigate the maze. Hence (c).

111. Which of the following words from the passage means 'a detailed and complex design or pattern'?

- (a) Minerva
- (b) Lycomedes
- (c) Labyrinth
- (d) Aether

Ans. c

Sol. Option (c) is correct because a labyrinth is another word for a maze, which is indeed a detailed and complex design or pattern. Option (a) is incorrect because the passage states that Minerva is the name of an ancient land, not a design or pattern. Option (b) is incorrect because Lycomedes is mentioned as the celebrated architect who created the maze, not a design or pattern. Option (d) is incorrect because the passage describes Aether as a magnificent fountain in the heart of the maze, not a design or pattern.

112. “Legend had it that on the rare day when the North Star could be seen directly above Aether, the maze would reconfigure its pathways, making the challenge of navigating it even more complex.” Which of the following is the most convincing conclusion from this statement?

- (a) The North Star has the power to reshape physical structures.
- (b) The maze’s design was static and unchanging.
- (c) The appearance of the North Star above Aether had a significant symbolic meaning in Minervan lore.
- (d) The fountain Aether had the ability to move around the maze.

Ans. c

Sol. Option (c) is correct because the reconfiguration of the maze's pathways upon the North Star's appearance above Aether suggests a significant event or symbolism attached to this phenomenon in the Minervan legends. Option (a) is incorrect because the passage does not specify that the North Star has direct power over physical structures. It's the appearance of the North Star above Aether that triggers the change. Option (b) is incorrect because the statement specifically mentions that the maze would reconfigure its pathways on the rare day when the North Star is seen directly above Aether, indicating the maze’s design was not static. Option (d) is incorrect because while the passage mentions the fountain Aether, it does not suggest that the fountain itself had the ability to move around the maze. Hence (c).

113. All the words below are related in meaning, except:

- (a) Labyrinth (b) Maze (c) Minerva (d) Puzzle

Ans. c

Sol. Option (c) is correct because Minerva, as described in the passage, is the name of an ancient land and not related to the meanings of maze or puzzle. Option (a) is incorrect because a labyrinth is another term for a maze, which is a complex design or pattern one navigates through. Option (b) is incorrect because a maze, as mentioned earlier, is a complex design or pattern one tries to navigate. Option (d) is incorrect because a puzzle is something one tries to solve or navigate, much like a maze or labyrinth. Hence (c).

Section - B: Logical Reasoning

114. Which statement is accurate regarding the entrance to the mysterious underground tunnel in the maze of Minerva?

- (a) The entrance to the underground tunnel is at the base of Eurys.
- (b) The entrance lies where Zephyrus' shadow meets Aether.
- (c) The entrance is where the North Star can be seen above Aether.
- (d) The entrance is where the shadow of Boreas meets Aether.

Ans. d

Sol. Option (d) is correct because the passage states that a tattered old scroll hinted that the entrance to the underground tunnel lies "where the shadow of Boreas meets Aether."

Option (a) is incorrect because the passage does not state that the entrance to the underground tunnel is at the base of Eurus. Option (b) is incorrect because the passage states that at dawn, the fountain Aether emits a radiant blue glow pointing toward Zephyrus. However, it does not indicate that the entrance to the tunnel is where Zephyrus' shadow meets Aether. Option (c) is incorrect because the passage mentions that on the rare day when the North Star could be seen directly above Aether, the maze would reconfigure its pathways. It does not mention this as the entrance to the tunnel. Hence (d).

115. Which of the following provides the correct orientation for someone standing at the entrance of the maze in the morning?

- (a) Notus is directly in front, with Zephyrus to the right.
- (b) Boreas is to the left, with the sun ahead.
- (c) Eurus is to the right, with the sun behind.
- (d) Zephyrus is directly behind, with Notus to the left.

Ans. c

Sol. Option (c) is correct because the passage reveals that "In the mornings, the shadow of Eurus always fell upon the entrance of the maze," implying that the sun is in the east. Thus, if one stands at the entrance, Eurus would be to their right, and the sun would be behind them. Option (a) is incorrect because the passage states that Eurus and Zephyrus lay on the East-West axis. Given that the shadow of Eurus falls upon the entrance in the morning (indicating the entrance is in the west), Notus cannot be directly in front when Zephyrus is to the right. Option (b) is incorrect because the passage mentions the shadow of Eurus falling upon the entrance in the mornings, which would place the sun in the east. Thus, the sun cannot be ahead if Boreas is to the left. Option (d) is incorrect because if Zephyrus (West) is directly behind, then Eurus (East) would be in front. The passage states that the shadow of Eurus falls on the entrance in the mornings, so Zephyrus cannot be directly behind when standing at the entrance. Hence (c).

116. Which of the following claims about the fountain Aether's mystical properties is accurate based on the passage?

- (a) Aether's glow points toward Eurus at dusk and Zephyrus at dawn.
- (b) The glow from Aether always points toward Notus.
- (c) Aether's glow changes direction when the North Star is visible above it.
- (d) Aether emits a radiant blue glow only during the day.

Ans. c

Sol. Option (d) is correct because the passage specifies that "At dawn, it would emit a radiant blue glow pointing toward Zephyrus," and "by dusk, its glow would pivot towards Boreas." There is no mention of Aether glowing at any other time. Option (a) is incorrect because the passage states that "At dawn, it would emit a radiant blue glow pointing toward Zephyrus, and by dusk, its glow would pivot towards Boreas." This contradicts the claim that Aether's glow points towards Eurus at dusk. Option (b) is incorrect because the passage specifically details that Aether's glow points toward Zephyrus at dawn and towards Boreas by dusk. It doesn't always point towards Notus. Option (c) is incorrect because the passage states that "on the rare day when the North Star could be seen directly above Aether, the maze would reconfigure its pathways." It does not mention any change in the direction of Aether's glow based on the visibility of the North Star. Hence (c).

117. Which of the following best describes the significance of the rotating signposts scattered throughout the maze?

- (a) They always point towards the tower of Zephyrus regardless of their location.
- (b) They change direction based on the location of the North Star.
- (c) By evening, they always point towards the tower of Notus, no matter their position.
- (d) They provide hints regarding the entrance to the hidden underground tunnel.

Ans. c

Sol. Option (c) is correct because the passage explicitly states that "by evening, [the signposts] always pointed towards Notus, no matter their location in the maze." This confirms the constant orientation of the signposts towards Notus in the evening. Option (a) is incorrect because the passage does not mention that the rotating signposts always point towards the tower of Zephyrus. Instead, it speaks of their orientation in the evening relative to Notus. Option (b) is incorrect because, while the passage does mention the North Star's effect on the maze's pathways, it does not specify any impact of the North Star on the direction of the rotating signposts. Option (d) is incorrect because the passage does not indicate that the rotating signposts provide any hints or clues about the entrance to the hidden underground tunnel. The hint about the tunnel's entrance is instead linked to the shadow of Boreas meeting Aether. Hence (c).

118. What crucial clue does Lycomedes provide regarding the path leading to Aether?

- (a) The path is hidden beneath the underground tunnel.
- (b) The path is where Zephyrus' shadow intersects with that of Eurus.
- (c) When standing at the entrance, with Eurus to the right and the sun behind, the path leading to Aether is directly in front.
- (d) The path becomes clear only when the North Star is visible above Aether.

Ans. c

Sol. Option (c) is correct because Lycomedes, in his memoirs, reveals a specific clue: "When standing at the entrance, with Eurus to your right and the sun behind, the path leading to Aether is directly in front." This statement directly matches the description in the given option. Option (a) is incorrect because the passage does not mention that the path to Aether is hidden beneath the underground tunnel. The tunnel's reference in the passage relates to its entrance being where Boreas' shadow meets Aether. Option (b) is incorrect because the passage does not state that the path to Aether is where Zephyrus' shadow intersects with that of Eurus. The reference to shadows in the text primarily concerns Eurus' shadow on the maze entrance and Boreas' shadow in relation to the underground tunnel. Option (d) is incorrect because the passage only mentions that when the North Star is visible directly above Aether, the maze reconfigures its pathways. There's no indication that the path to Aether becomes clear solely under this circumstance. Hence (c).

119. What mysterious event occurs in the maze when the North Star is directly visible above the fountain Aether?

- (a) The glow of Aether switches to point towards Eurus.
- (b) The rotating signposts change their orientation towards Zephyrus.
- (c) The entrance to the underground tunnel becomes visible.
- (d) The maze reconfigures its pathways, shifting the positions of its internal structures.

Ans. d

Sol. Option (d) is correct because the passage explicitly states, "on the rare day when the North Star could be seen directly above Aether, the maze would reconfigure its

pathways." This indicates a direct relationship between the North Star's visibility over Aether and the maze's structural alterations. Option (a) is incorrect because the passage specifies that "At dawn, [Aether] would emit a radiant blue glow pointing toward Zephyrus," and "by dusk, its glow would pivot towards Boreas." The behavior of Aether's glow does not change based on the visibility of the North Star. Option (b) is incorrect because, while the passage does mention rotating signposts, there is no indication that their direction changes based on the position of the North Star. They are noted to point towards Notus by evening. Option (c) is incorrect because the entrance to the underground tunnel is hinted to be "where the shadow of Boreas meets Aether." The North Star's visibility is not linked to revealing the tunnel entrance. Hence (d).

120. What observation can be made about the geographical orientation of the tower of Eurus relative to the sun during mornings?

- (a) Eurus is to the west of the sun.
- (b) Eurus is positioned directly below the sun.
- (c) Eurus blocks the rays of the sun, casting a shadow on the entrance.
- (d) The shadow of Eurus falls upon Zephyrus every morning.

Ans. a

Sol. Option (a) is correct because the passage mentions that "In the mornings, the shadow of Eurus always fell upon the entrance of the maze." For a shadow to be cast from Eurus to the entrance in the morning, Eurus must be to the west of the sun. Option (b) is incorrect because the passage does not state that Eurus is positioned directly below the sun. The primary reference to Eurus is regarding its shadow falling upon the maze entrance in the mornings. Option (c) is correct in stating that Eurus blocks the rays of the sun, but it is not the complete information. The passage clearly states that the shadow of Eurus falls upon the entrance, which implies it blocks the sun's rays, casting a shadow. Option (d) is incorrect because the passage does not mention that the shadow of Eurus falls upon Zephyrus every morning. Instead, it specifies that Eurus's shadow falls on the maze's entrance. Hence (a).

Current Affairs with GK

121. Where is India's first urban wildlife corridor being planned?

- (a) Between Mumbai and Pune
- (b) Between Delhi and Jaipur
- (c) Between New Delhi and Haryana
- (d) Between Bangalore and Chennai

Ans. c

Exp: Wildlife Corridors: Wildlife corridors are connected with the protected areas and allow the movement of animals without interfering with human settlements. Recently, India's first urban wildlife corridor is being planned between New Delhi and Haryana. The corridor is near the Asola Bhatti wildlife sanctuary to provide safe passage to wildlife animals such as leopards and other animals.

122. The ethanol blending programme in India has been extended to which areas?

- (a) All states and Union Territories
- (b) All states except Andaman Nicobar and Lakshadweep islands
- (c) Only major cities and metropolitan areas
- (d) Only rural areas with agricultural activity

Ans. b

Exp: Government has been implementing Ethanol Blended Petrol (EBP) Programme throughout the country except Union Territories of Andaman Nicobar and Lakshadweep islands, wherein OMCs sell petrol blended with 10% ethanol.

123. Which city is the host of the 'Meeting of Space Economy Leaders under India's G20 presidency'?

- (a) Bengaluru (b) Mysuru (c) Chennai (d) Pune

Ans. a

Exp. Under India's presidency of the Group of Twenty (G20), the 4th edition of the Space Economy Leaders Meeting (SELM) is scheduled to be held in Bengaluru.

The theme for this event, "Towards a New Space ERA (Economy, Responsibility, Alliance)", is chosen in line with India's G20 Summit's theme of "One Earth, One Space and One Future".

124. Which country won the title of Asian Kabaddi Championship 2023?

- (a) Pakistan (b) Bangladesh (c) India (d) Iran

Ans. c

Exp. India has won the Asian Kabaddi Championship 2023 title by defeating Iran 42-32 in the final. The Asian Kabaddi Championship 2023 was organized in Busan, South Korea. This was India's eighth title in the last nine editions. The next target of the Indian Kabaddi team is to win a medal in the Asian Games to be held in Hangzhou, China.

125. Which institution released the Draft Telecommunication Consumers Education and Protection Fund?

- (a) TRAI (b) Prasar Bharti (c) NASSCOM (d) NITI Aayog

Ans. a

Exp. Recently, the Telecom Regulatory Authority of India (TRAI) unveiled the draft Telecommunication Consumers Education and Protection Fund (Sixth Amendment) Regulation, 2023, seeking input from stakeholders.

It seeks to make changes in the Telecommunication Consumers Education and Protection Fund Regulations, 2007.

126. Who has been elected as the new Deputy Chairman of Rajya Sabha?

- (a) Smriti Irani (b) S Phangnon Konyak
(c) Abhishek Awasthi (d) Kuldeep Singh

Ans. b

Exp. S Phangnon Konyak, the lone MP from Nagaland in the Upper House of Indian Parliament, has been nominated as a Deputy Chairman of the Rajya Sabha. Under the Rules of Procedure and Conduct of Business in Rajya Sabha, Rajya Sabha Chairman Jagdeep Dhankhar nominated Phangnon to the panel of Deputy Chairmen. Phangnon is a resident of Oting village in Mon district of Nagaland.

127. Which country has become the new permanent member of Shanghai Cooperation Organisation?

- (a) Mongolia (b) Belarus (c) Iran (d) Sri Lanka

Ans. c

Exp. Iran has formally become a full member of the Shanghai Cooperation Organization (SCO). Prime Minister Narendra Modi, while presiding over the SCO summit on Tuesday, extended his best wishes to Iran. Till now SCO consisted of eight member states, which

include China, Russia, India, Pakistan and four Central Asian countries Kazakhstan, Kyrgyzstan, Tajikistan and Uzbekistan. The Shanghai Cooperation Organization was formed in the year 2001 with six member countries. India became its member in the year 2017.

128. 'Heli Summit 2023' and RCS Udaan-5.2 were inaugurated in which state?

- (a) Madhya Pradesh (b) Himachal Pradesh
(c) Arunachal Pradesh (d) Uttar Pradesh

Ans. a

Exp. Union Civil Aviation Minister Jyotiraditya M. Scindia inaugurated Heli Summit 2023 in Khajuraho, Madhya Pradesh and also launched Udaan 5.2 and HeliSewa-App. The 5th Helicopter and Small Aircraft Summit (Heli Summit 2023) was organized by the Ministry of Aviation in collaboration with the Government of Madhya Pradesh, Pawan Hans Limited and FICCI.

129. According to Food and Agriculture Organization Corporate Statistical Database (FAOSTAT), which country is the highest milk producer in the world (2021- 2022)?

- (a) China (b) India (c) United States (d) Brazil

Ans. b

Exp. According to production data of Food and Agriculture Organization Corporate Statistical Database (FAOSTAT), India is the highest milk producer i.e., rank first position in the world contributing twenty-four percent of global milk production in the year 2021-22.

130. As of May 2023, what is India's installed solar energy capacity in GW?

- (a) 32.1 GW (b) 47.3 GW (c) 54.9 GW (d) 66.7 GW

Ans. d

Exp. The installed solar energy capacity has increased by 24.4 times in the last 9 years, and stands at 66.7 GW as of May 2023.

131. Under Indian Navy's 30 Year plan how many conventional submarines were planned to be constructed indigenously by 2030?

- (a) 12 (b) 18 (c) 24 (d) 30

Ans. c

Exp. The 30-year submarine-building plan was approved by the Cabinet Committee on Security, in June 1999, which included the construction of 24 conventional submarines indigenously by 2030.

132. When is International Micro, Small, and Medium Enterprises (MSME) Day observed?

- (a) 1st May
(b) 15th July
(c) 27th June
(d) 10th October

Ans. c

Exp. International Micro, Small, and Medium Enterprises (MSME) Day or World MSME Day is observed every year on 27th June all over the world to highlight the significance of MSMEs and how they play a crucial role in being the backbone of the country's economy.

133. Which committee was responsible for the codification of Hindu law?

- (a) BN Rau (b) AK Mitra
(c) Arvind Mukherji (d) Indian Law Codification Committee

Ans. a

Exp. Due to a rise in legislation addressing personal matters towards the end of British rule in India, the government established the B N Rau Committee in 1941. The primary purpose of this committee was to codify Hindu law. This means they aimed to create a unified and organized set of laws that would govern various aspects of Hindu personal matters.

134. Where will the hydrogen-powered train be launched by Indian Railways by 2024?

- (a) Mumbai (b) Kolkata (c) Haryana (d) Delhi

Ans. c

Exp. Indian Railways is taking a major step towards protecting the environment by introducing its first hydrogen-powered train. This train will run on hydrogen instead of traditional fuels, which will help reduce pollution. The train will be launched in Jind district, Haryana, and is expected to start operating by March 2024. This initiative aims to promote environmental sustainability and contribute to a cleaner and greener future.

135. Where is the headquarters of the Asian Development Bank located?

- (a) Tokyo, Japan (b) Beijing, China
(c) Seoul, South Korea (d) Manila, Philippines

Ans. d

Exp. The Asian Development Bank (ADB) is a regional development bank founded in 1966 to promote Asian and Pacific economic and social development. The bank is headquartered in Manila, Philippines.

136. How many total payloads does Chandrayaan 3 consists of?

- (a) 2 (b) 4 (c) 5 (d) 7

Ans. d

Exp. Chandrayaan 3 consists of total 7 Payloads -:

Pragyaan Rover – 2 (ABXS and LIBS)

Vikram Lander – 4 (ILSA, RAMBHA, LRA and ChaSTE)

Propulsion Module – 1 (SHAPE)

137. Who was the Project director of Chandrayaan 3?

- (a) S. Somnath (b) M. Shankar (c) K. Kalpana (d) P. Veermuthuvel

Ans. d

Exp. P. Veermuthuvel is the Project Director of Chandrayaan 3.

138. Who among the following is NOT a member of the high-level committee responsible for appointing the CBI Director?

- (a) Chief Justice of India (b) Prime Minister of India
(c) Leader of the Opposition in Lok Sabha (d) Chairman of Rajya Sabha

Ans. d

Exp: CBI director is selected by a high-level committee comprising the Prime Minister, the Chief Justice of India, and Leader of the opposition in Lok Sabha.

139. Which language model was developed by META as the first large language model?

- (a) LLaMA (b) Blender (c) Glactica (d) Cage

Ans. c

Exp. LLaMA is the third large language model developed by META. The first was Glactica, and the second was Blender. However, unlike its predecessors, LLaMA requires fewer resources and computing power.

140. When was the Pradhan Mantri Fasal Bima Yojana (PMFBY) launched?

- (a) 2014 (b) 2015 (c) 2016 (d) 2017

Ans. c

Exp. Pradhan Mantri Fasal Bima Yojana launched in 2016 and is being administered by the Ministry of Agriculture and Farmers Welfare. It replaced the National Agricultural Insurance Scheme (NAIS) and Modified National Agricultural Insurance Scheme (MNAIS).

141. What is the primary purpose of the WINDS Portal?

- (a) To manage hyper-local weather data for urban areas
 (b) To collect data on agricultural market prices
 (c) To facilitate access to agricultural loans
 (d) To manage hyper-local weather data for rural areas

Ans. d

Exp. WINDS Portal: Weather Information Network Data Systems portal. It is a centralized platform to manage hyper-local weather data collected by automatic weather stations and rain gauges at taluk/block and gram panchayat levels.

142. How many countries' Food Regulatory Authorities are included in SaNGRAH?

- (a) 56 countries (b) 76 countries (c) 86 countries (d) 96 countries

Ans. b

Exp. The common regulators platform 'SaNGRAH'— Safe food for Nations: Global food Regulatory Authorities Handbook was also launched at the summit. This handbook is available in Hindi, English, Gujarati, Marathi, Tamil, Telugu, Kannada, and Malayalam. It is a database of Food Regulatory Authorities of 76 countries across the world, their mandate, food safety ecosystem, food testing facilities, contact details for food authorities.

143. What does the term "R0" indicate in the context of disease spread?

- (a) The recovery rate of infected individuals
 (b) The severity of the disease
 (c) How fast an infection is spreading
 (d) The total number of cases in a population

Ans. c

Exp. R0 indicates how fast an infection is spreading. If $R_0=1$, then the disease is endemic. When $R_0>1$, it implies that the cases are increasing and that the disease will eventually become an epidemic.

144. What is the theme of 77th Independence Day?

- (a) Azadi ka Amrit Mahotsav (b) Nation First Always First
 (c) Support Our Troops, Salute Our Troops (d) Atmanirbhar Bharat

Ans. b

Exp. Theme of 77th Independence Day is 'Nation First Always First'.

145. PM Modi announced Vishwakarma Yojana to be launched on 17th September. It will benefit which group?

- (a) Architects (b) Women Self Help Groups
 (c) Traditional artisans and craftsman (d) Forest Dwellers

Ans. c

Exp. PM Modi announces 'Vishwakarma Yojana' to benefit individuals skilled in traditional craftsmanship.

146. Which country is not among the members of the INTERPOL Global Academy?

- (a) India (b) Spain (c) Australia (d) Saudi Arabia

Ans. c

Exp. The INTERPOL Global Academy currently has 10 members: Abu Dhabi, Argentina, Austria, Botswana, Colombia, India, Korea, Rwanda, Saudi Arabia and Spain.

147. Where are the headquarters of the World Health Organization (WHO) located?

- (a) New York, USA (b) Paris, France (c) London, UK (d) Geneva, Switzerland

Ans. d

Exp. World Health Organization (WHO), the United Nations' specialized agency for Health was founded in 1948. Its headquarters are situated in Geneva, Switzerland.

148. As per Tiger Census 2022, how many tigers are there in India?

- (a) 2946 (b) 3476 (c) 3682 (d) 3946

Ans. c

Exp. India has 3682 tigers, home to 75 percent of global numbers. Status of Tigers 2022 was released on International Tigers Day (29 July). M.P. is the home to highest number of tigers with 785 Tigers.

149. By which one of the following Constitutional amendments, Delhi has become the National Capital Region?

- (a) 61st CAA (b) 65th CAA (c) 69th CAA (d) 72nd CAA

Ans. c

Exp. 69th Amendment Constitutional Amendment Act of 1991 designated the Union Territory of Delhi as the National Capital Territory of Delhi.

The 69th Amendment act of the Indian Constitution granted special status to Delhi.

In 1991, the amendment was passed and it granted a special state to Delhi and it was declared the National Capital Territory.

150. What does a village need to achieve to be honoured with the title of an "Ayushman Gram"?

- (a) Villages with proper immunisation system
 (b) Successfully implement Ayushman Bharat Health Accounts (ABHA) across the village.
 (c) Cover all health schemes and provide immunization and NCD screening to residents.
 (d) Establish advanced medical facilities and hospitals within the village.

Ans. c

Exp. The fourth pillar of Ayushman Bhav, Ayushman Gram, aims to achieve 100% coverage of PMJAY card distribution, ABHA ID generation, immunization, and screening for non-communicable diseases (NCD). Villages successfully covering all health schemes will be honoured with the title of an "Ayushman Gram" and receive a certificate of recognition.

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