



THE CLAT COMBAT

Quantitative Techniques 2

Directions (1-5): Read the following information and answer the questions that follow.

An exam was conducted across five schools A, B, C, D and E. Out of all the students who appeared in the exam from School A only 25% were able to clear the exam and the rest of the students failed the exam. 20% of the total students who appeared in the exam from school B were able to clear the exam and rest of the students were not able to clear the exam. Out of all the students who appeared in the exam from school C, 55% were not able to clear the exam while from the school D 30% were able to clear the exam. The no. of students who failed in the exam from school E were 65% of the total students appeared from the same centre.

1. The difference of number of students who cleared the exam from school A and the no. of students who failed the			
exam from school A is 1500. If the total number of students in school E is double of total students of school A then,			
find the no. of students who cleared the exam from school E.			
(a) 1400	(b) 2100	(c) 2800	(d) 3500
2. The total number of students in all the five schools is 10500. The distribution of these students in these five schools			
is A: B: C: D: E = 1:2:3:4:5. Find the number of students who cleared the exam from school C.			
(a) 845	(b) 925	(c) 945	(d) 965
3. The no. of students who cleared the exam from school E is 875. The no. of total students in the school B is same as			
the no. of students in school 'E'. Find the no. of students who failed the exam from school B.			
(a) 1500	(b) 1800	(c) 2000	(d) 2500
4. If difference between failed students from 'B' and passed students from 'A' is 90 (consider failed students from B >			
passed students from A) and the difference between failed students from 'A' and passed students from 'B' is 115			
(consider failed students from A > passed students from B). Find the total no. of students in 'A'.			
(a) 200	(b) 175	(c) 150	(d) 125
5. If difference between failed students from 'B' and passed students from 'A' is 90 (consider failed students from B >			
passed students from A) and the difference between failed students from 'A' and passed students from 'B' is 115			
(consider failed students from A > passed students from B). Find the total no. of students in 'B'.			
(a) 200	(b) 175	(c) 150	(d) 125

1.Ans. b

Sol. Difference of clear and fail in 'A' = 75-25=50%

Given, 50% = 1500

Thus, total in A = 100% = 3000

Total in E' = double of A = 6000

Clear% in E = 35% of 6000 = 2100

Hence, option (b) is correct.

2.Ans. c

Sol. Total students = 10500 and the ratio is 1:2:3:4:5.

Students in 'C' = 3/15 = 1/5 of 10500 = 2100

Now, out of the total students 2100, 45% cleared the exam.

Thus, 45% of 2100 = 945

Hence, option (c) is correct.

3.Ans. c

Sol. Clear % from E = 35% = 875

100% = 2500

Thus, total students in 'B' = 2500

Failed % in 'B' = 80% of 2500 = 2000

Hence, option (c) is correct.

4.Ans. a

Sol. COMMON EXPLANATION

Let the total no. of students in school 'A' = 100x

Cleared in 'A' = 25x and failed in 'A' = 75x

Let the total no. of students in school 'B' = 100y





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Cleared in 'B' = 20y and failed in 'B' = 80y

Given, Difference between failed students from 'B' and cleared students from 'A' is 90

So, $80y - 25x = 90 \Rightarrow 16y - 5x = 18 \dots (1)$

Difference between failed students from 'A' and cleared students from 'B' is 115

So, $75x - 20y = 115 \Rightarrow 15x - 4y = 23$ (2)

Multiplying the equation (2) by 4. We get,

 $60x - 16y = 92 \dots (3)$

Adding equation (1) and (3) we get

55x=110. So, x=2 and y=7/4

Thus, total in 'A' = 100x = 200

Hence, option (a) is correct.

5.Ans. b

Sol. Following the COMMON EXPLANATION

Total in 'B' = 100y = 100*(7/4) = 175

Hence, option (b) is correct.