

QUESTIONS OF THE WEEK

ANALYTICAL REASONING

Passage: Read the following information and answer the questions given below it.

- I. Seven buses M, N, O, P, Q, R and S are run by a company every day. Each bus makes a 4 hour trip.
- II. From Monday to Friday the following schedule is followed the first bus leaves at 8:00 a.m., the second after 45 minutes. the next one 30 minutes later, another one after another 45 minutes followed by the next 35 minutes later, and so on.
- III. On Saturday and Sunday the first bus leaves at 7:30 a.m. and the remaining buses at intervals of one hour each.
- IV. Q leaves immediately after M and is followed by S.
- V. No bus leaves after O.
- VI. R leaves immediately before M but not immediately after P.

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1. When does bus R finish its trip on Wednesday?
- (a) 9:15 a.m.
 - (b) 1:15 p.m.
 - (c) 1:30 p.m.
 - (d) Data inadequate.

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2. When P is about to finish its trip on Sunday, which bus is about to leave?
- (a) Q
 - (b) S
 - (c) O
 - (d) Data inadequate

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3. If the buses leaving after M on Saturday and Sunday have the duration of their trips extended by 30 minutes each, when will O's trip end?
- (a) 3:00 p.m.
 - (b) 2:00 p.m.
 - (c) 6:00 p.m.
 - (d) 7:00 p.m.

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4. If buses, from Monday to Friday, leave at equal intervals of 45 minutes each, bus O will leave just after the completion of the trip of bus?
- (a) N
 - (b) R
 - (c) M
 - (d) None of these

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5. When does bus M leave on Saturday?
- (a) 10:00 a.m.
 - (b) 9 : 45 a.m.
 - (c) 10: 30 a.m.
 - (d) Data inadequate.

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1. **Answer: B**

Sol. On Wednesday, P leaves at 8 a.m.

R will leave after P = $45 \div 30 = 75$ minutes

Leaving time of R = 9:15 a.m.

Ending time of R = $9:14 + 4 = 1:15$ p.m.

2. **Answer: A**

Sol. P finishes its trip in four hours. On Sunday the intervals are one hour each. So, after $(4 \div (1)) = 5$ hours; 5th bus in the sequence i.e., Q will leave.

3. **Answer: C**

Sol. O is the 7th bus in the sequence and it will leave 6 hours after P.

So, leaving time of O on Saturday and Sunday = 7:30 a.m. 6 hours = 1:30 p.m.

Total time of trip is 4 hours 30 minutes.

So, O's trip will end at = 6:00 p.m.

4. **Answer: D**

Sol. M is the 4th bus. So, it will 3 hours after P.

Leaving time of M on Saturday = 7:30 + 3 = 10:30 a.m.

Leaving time of O = $45 \times 6 = 270$ minutes = 4 hours after P = 12 p.m.

At that time only bus P have finished its trip.

5. **Answer: C**

Sol. M is the 4th bus. So, it will 3 hours after P.

Leaving time of M on Saturday = 7:30 + 3 = 10:30 a.m.

So, the correct answer is (c).