

# 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 =  $45 - 30 = 75$  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 - 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).



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