



General Instructions

- (i) The examination will be conducted in Computer-Based Test (CBT) mode.
- (ii) Each question carries +5 marks for correct answer and -1 mark for wrong answer.
- (iii) The total number of questions are 50.
- (iv) Duration of the exam is 1 hour (60 minutes).

1. A car travels 105 km in 3 hours and a train travels 252 km in 4 hours. The ratio of speed of the car to that of the train is:

- (A) 9 : 11
- (B) 3 : 5
- (C) 2 : 7
- (D) 5 : 9

2. The diameter of a circular garden is 140 m. Its area is equal to a rectangular field whose sides are in the ratio 11 : 7. The perimeter (in m) of the rectangular field is (take $\pi = \frac{22}{7}$):

- (A) $360\sqrt{2}$
- (B) $180\sqrt{2}$
- (C) $120\sqrt{2}$
- (D) $270\sqrt{2}$

3. If 12 men or 20 women can do a work in 54 days, then in how many days can 9 men and 12 women together do the work?

- (A) 38 days
- (B) 32 days

- (C) 40 days
 - (D) 35 days
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4. The angle of elevation of the top of a hill at the foot of the tower is 60° and the angle of elevation of the top of the tower from the foot of the hill is 30° . If the tower is 50 m high, what is the height of the hill?

- (A) 180 m
 - (B) 120 m
 - (C) 100 m
 - (D) 150 m
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5. A can do $\frac{1}{3}$ of a work in 30 days. B can do $\frac{4}{5}$ of the same work in 24 days. They worked together for 20 days. C completed the remaining work in 8 days. Working together A, B and C will complete the same work in:

- (A) 15 days
 - (B) 10 days
 - (C) 18 days
 - (D) 12 days
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6. Indu gives Bindu a loan of Rs 1250 for 2 years at 4% annual compound interest rate. How much rupee would he have lost if he had given that amount on loan for 2 years at 4% simple interest?

- (A) 10
 - (B) 8
 - (C) 3
 - (D) 2
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7. A person rows at 6 km/h in still water. It takes him twice the time to row upstream than to row downstream. Find the speed of the stream.

- (A) 2 km/h
 - (B) 3 km/h
 - (C) 4 km/h
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(D) 1.5 km/h

8. A man walks at a speed of 8 km/h. After every kilometre, he takes a rest for 4 minutes. How much time will he take to cover a distance of 6 km?

(A) 70 minutes

(B) 69 minutes

(C) 65 minutes

(D) 60 minutes

9. The shadow of a tower standing on a level plane is 30 m longer when sun's elevation changes from 60° to 30° . Find the height of the tower.

(A) $10\sqrt{3}$ meter

(B) 15 meter

(C) $30\sqrt{3}$ meter

(D) $15\sqrt{3}$ meter

10. The mean of 10 observations was calculated as 40. It was detected on rechecking that the value of one observation 45 was wrongly copied as 15. Find the correct mean.

(A) 43

(B) 34

(C) 40

(D) 60
