

129/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. The smallest perfect square which is exactly divisible by 2, 3, 4, 5 and 6 :  
(A) 1600 (B) 900  
(C) 784 (D) 1800
2. A does a work in 16 days and B does work in 12 days. B together with a boy does the same work in 8 days. How much time will the boy alone take to do the work?  
(A) 96 (B) 48  
(C) 32 (D) 24
3. A train clears a platform of 200 meters long in 15 seconds and passes a telegraph post in 10 seconds. The length of the train is :  
(A) 100 meters (B) 200 meters  
(C) 300 meters (D) 400 meters
4. Two concentric circles have their radii 4 cm and 6 cm. The area of the space between them (use  $\pi = \frac{22}{7}$ ) is :  
(A)  $\frac{550}{7}$  sq. cm (B)  $\frac{528}{7}$  sq. cm  
(C)  $\frac{440}{7}$  sq. cm (D)  $\frac{88}{7}$  sq. cm
5. The L.C.M of two numbers is 864 and their H.C.F is 144. If one of the numbers is 288 the other number :  
(A) 432 (B) 576  
(C) 1296 (D) 144
6. Income of Rajesh is 25% more than the income of Girish. The income of Girish is less than the income of Rajesh by :  
(A) 25% (B) 20%  
(C) 30% (D) 22%

7. Sanu's present age is one fourth of his father's age. Father has 30 years more than Sanu. The present age of Sanu :
- (A) 12 (B) 20  
(C) 10 (D) 15
8. If  $A : B = 2 : 3$  and  $B : C = 6 : 5$  then  $A : C$  :
- (A) 2 : 5 (B) 3 : 5  
(C) 4 : 5 (D) 6 : 5
9. An outlet empties  $\frac{3}{8}$  of the tank in 12 minutes. To empty the remaining content it should further take :
- (A) 20 minutes (B) 12 minutes  
(C) 15 minutes (D) 18 minutes
10. Ramu bought 40 kg of wheat at Rs. 12.50 per kg and 25 kg at Rs. 15.10 per kg. He mixed them together. At what rate should he sell the mixture to earn 10% profit?
- (A) Rs. 14.85 (B) Rs. 13.50  
(C) Rs. 13.25 (D) Rs. 14.75
11. Find the next number : 3, 10, 32, 100, ——— :
- (A) 345 (B) 308  
(C) 440 (D) 460
12. In a code DET = 8189, then MET = :
- (A) 10320 (B) 10300  
(C) 594 (D) 10322
13. Geetha is taller than Seetha, but shorter than Rema. Rema is shorter than Swapna, but taller than Maya. Who is the tallest among them?
- (A) Swapna (B) Geetha  
(C) Maya (D) Seetha
14. Vinod walked 4 km towards east. Then he turned left and walked 3 kms. Then he again turned left and walked 4 kms. Now how far is he from the starting place?
- (A) 2 km (B) 11 km  
(C) 3 km (D) 4 km