

140/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. A number when divided by 119 leaves 19 as remainder. If the same number is divided by 17, the remainder obtained is :  
(A) 2 (B) 7  
(C) 3 (D) 1
2. The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they all change simultaneously at 6: 10: 00 hrs then they will again change simultaneously at :  
(A) 6:17:17 (B) 6:17:10  
(C) 6:17:12 (D) 6:17:22
3. A mixture contains alcohol and water in the ratio 4:3. If 5 litres of water is added to the mixture the ratio becomes 4:5. Find the quantity of alcohol in the given mixture :  
(A) 12 ltrs (B) 10 ltrs  
(C) 20 ltrs (D) 22 ltrs
4. If the volume of a sphere is divided by its surface area, the result is 30 cm. The radius of the sphere is :  
(A) 90 cm (B) 9 cm  
(C) 81 cm (D) 8 cm
5. A and B can do a piece of work in 72 days, B and C can do it in 120 days, and A and C can do it in 90 days. When A, B and C work together, how much work is finished by them in 3 days?  
(A)  $\frac{1}{40}$  (B)  $\frac{1}{30}$   
(C)  $\frac{1}{10}$  (D)  $\frac{1}{20}$
6. Gokul took a certain amount as a loan from a bank at the rate of 8% simple interest per annum and gave the same amount to Alok as a loan at the rate of 12% simple interest per annum. If at the end of 12 years, he made a profit of Rs. 480 in the deal, what was the original amount?  
(A) Rs. 2,000 (B) Rs. 1,000  
(C) Rs. 3,000 (D) Rs. 4,000

7. There are two towns A and B. Raju goes from A to B at 40 kmph and comes back to the starting point at 60 kmph. What is his average speed during the whole journey?
- (A) 48 kmph (B) 52 kmph  
(C) 50 kmph (D) 46 kmph
8. A father is twice as old as his son. 20 years ago the age of the father was 12 times the age of the son. The present age of the father is :
- (A) 32 yrs (B) 34 yrs  
(C) 22 yrs (D) 44 yrs
9. If the perimeter of a rectangle and a square, each is equal to 80 cms, and difference of their areas is 100 sq. cms, sides of the rectangle are :
- (A) 35 cm, 15 cm (B) 28 cm, 12 cm  
(C) 30 cm, 10 cm (D) 26 cm, 14 cm
10.  $\frac{1}{4}$  of Raju's money is equal to  $\frac{1}{6}$  of Ramu's money. If both together have Rs. 600, the difference between their amount is :
- (A) Rs. 50 (B) Rs. 240  
(C) Rs. 360 (D) Rs. 120
11. In a certain code, 'FOP' stands for 'OLD IS GOLD', POT stands for 'GOLD IS PURE' and POM stands for GOLD IS COSTLY. Then how will "PURE OLD GOLD IS COSTLY" be written?
- (A) FTOPM (B) FTPOM  
(C) TFPOM (D) TFMOP
12. PRIDE is to LION as SHOAL is to :
- (A) TEACHER (B) FISH  
(C) SELF RESPECT (D) STUDENT
13. Choose the word which best expresses the meaning of the given word – "CORPULENT" :
- (A) LEAN (B) GAUNT  
(C) EMACIATED (D) OBESE