

122/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. The sum and product of two numbers are 13 and 40 respectively. The sum of their reciprocals is :
(A) $1/40$ (B) $3/40$
(C) $13/40$ (D) $30/40$
2. The ratio of the age of two sisters is 3:4. The product of their ages is 192. The ratio of their ages after 5 years will be :
(A) 3:4 (B) 21:17
(C) 17:21 (D) 8:9
3. If the breadth of a rectangle is increased by 40% and the length is reduced by 30%. What will be the effect on its area?
(A) Decreases by 2% (B) Increases by 2%
(C) Increases by 10% (D) Decreases by 10%
4. When A, B, C are work together they complete a job in 8 days. When A and C decided to do the work together they completed this job in 12 days. In how many days B alone can complete the work?
(A) 20 (B) 25
(C) 30 (D) 24
5. A man travelling at a speed of 20 km/hr, reached his office 10 minutes late. Next day he travelled at a speed of 30 km/hr and he reached his office 10 minutes earlier. The distance between his office and home is :
(A) 30 km (B) 40 km
(C) 50 km (D) 20 km
6. Find $(125+95)^2 - 4 \times 125 \times 95$:
(A) 400 (B) 900
(C) 1000 (D) 440
7. The angle between both hands of a clock at 9.20 A.M. will be :
(A) 120° (B) 150°
(C) 160° (D) 130°

8. A purse contains 1 rupee, 50 paise and 25 paise coins in the ratio 7:8:9. If the total money in the purse is 159. The number of 50 paise coins in the purse will be :
- (A) 96 (B) 84
(C) 82 (D) 86
9. The radii of bases of a cylinder and a cone are in the ratio 3:4. Volume of cylinder and cone are in the ratio 9:8. Then their heights are in the ratio :
- (A) 3:2 (B) 4:3
(C) 8:9 (D) 2:3
10. Average age of 15 persons is 24 years. Later a boy is included into this group then average becomes 23 years. The age of the boy will be :
- (A) 22 (B) 8
(C) 18 (D) 12
11. In a row of students, Sherin is 12th from the left and Athira is 19th from the right. If they interchange their positions, Sherin becomes 16th from the left. Then, what will be the position of Athira from the right?
- (A) 22nd (B) 23rd
(C) 24th (D) 28th
12. Raghu said, "Manju's father is the brother of my sister's son". How is Manju's father related to Raghu?
- (A) Grandfather (B) Cousin
(C) Nephew (D) None of these
13. If the following words are arranged according to the dictionary order, which will be the second word in that order?
- (A) Disgrace (B) Disgruntled
(C) Disgorge (D) Disguise
14. If PUBLISH is coded as BLUSHIP, how will DESTROY be coded?
- (A) STEROYD (B) STORYED
(C) STOYRDE (D) STEOYRD
15. Among the following list, choose the one that is different from the other ones :
- (A) Potato (B) Cabbage
(C) Carrot (D) Beet root