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**Quantitative and Data Interpretation & Sufficiency Section**

For all questions in this section, correct answers carry 1 mark each.

1. A dice is rolled three times and sum of three numbers appearing on the uppermost face is 15. The chance that the first roll was a four is  
(a)  $\frac{2}{5}$                       (b)  $\frac{1}{5}$                       (c)  $\frac{1}{6}$                       (d) None of these  
Ans. (b)
2. A boat covers distance of 30 kms. downstream in 2 hours while it takes 6 hours to cover the same distance upstream. What is the speed of the boat in kms per hour?  
(a) 5                      (b) 7.5                      (c) 13                      (d) 18  
Ans. (b)
3. A five digit number is formed by using the digits 1, 2, 3, 4, and 5 without repetitions. What is the probability that the number is divisible by 4 ?  
(a)  $\frac{1}{5}$                       (b)  $\frac{5}{6}$                       (c)  $\frac{4}{5}$                       (d) None of these  
Ans. (a)
4. If the algebraic sum of deviations of 20 observations measured from 23 is 70, mean of these observations would be  
(a) 24                      (b) 25                      (c) 26                      (d) None of these  
Ans. (d)
5. An alloy of gold and silver weighs 50 gms. It contains 80% gold. How much gold should be added to the alloy so that percentage of gold is increased to 90?  
(a) 50 gms                      (b) 60 gms                      (c) 30 gms                      (d) 40 gms  
Ans. (a)
6. Weekly incomes of two persons are in the ratio of 7:3 and their weekly expenses are in the ratio of 5:2. If each of them saves Rs. 300 per week, then the weekly income of the first person is  
(a) Rs. 7500                      (b) Rs. 4500                      (c) Rs. 6300                      (d) Rs. 5400  
Ans. (c)
7. Wheat is now being sold at Rs. 27 per kg. During last month its cost was Rs. 24 per kg. Find by how much per cent a family reduces its consumption so as to keep the expenditure fixed.  
(a) 10.2%                      (b) 12.1%                      (c) 12.3%                      (d) 11.1%  
Ans. (d)
8. There are 10 stations on a railway line. The number of different journey tickets that are required by the authorities is  
(a) 92                      (b) 90                      (c) 91                      (d) None of these  
Ans. (b)
9. The radius of a circle is so increased that its circumference increased by 5%. The area of the circle then increases by  
(a) 12.5%                      (b) 10.25%                      (c) 10.5%                      (d) 11.25%  
Ans. (b)
10. In how many ways can the letters of the word ABACUS be rearranged such that the vowels always appear together?  
(a)  $6! 12!$                       (b)  $3! * 3!$                       (c)  $(3! * 3!)/2!$                       (d)  $(4! * 3!)/2!$   
Ans. (d)
11. In 4 years, Rs. 6000 amounts to Rs. 8000. In what time at the same rate will Rs. 525 amount to Rs. 700?  
(a) 2 years                      (b) 3 years                      (c) 4 years                      (d) 5 years  
Ans. (c)

**Directions for Question Nos. 12-14**

At the start of a game of cards, J and B together had four times as much money as T, while T and B together had three times as much as J.

At the end of the evening, J and B together had three times as much money as T, while T and B together had twice as much as J. B lost Rs. 200.

12. What fraction of the total money did T have at the beginning of the game ?  
(a)  $1/3$  (b)  $1/8$  (c)  $2/9$  (d)  $1/5$   
Ans. (d)
13. What fraction of the total money did J win/ lose ?  
(a) Won  $1/12$  (b) Lost  $1/6$  (c) Lost  $1/3$  (d) Won  $1/5$   
Ans. (a)
14. What amount did B start with ?  
(a) Rs. 575 (b) Rs. 375 (c) Rs. 825 (d) Rs. 275  
Ans. (c)
15. If a and b are negative, and c is positive, which of the following statements is/are true?  
I)  $a-b < a-c$  II) if  $a < b$ , then  $a/c < b/c$  III)  $1/b < 1/c$   
(a). I only (b). II only (c). III only (d). II and III only  
Ans. (d)
16. The diagonal of a square is  $4\sqrt{2}$  cm. The diagonal of another square whose area is double that of the first square is  
a. 8 cm (b)  $8\sqrt{2}$  cm (c)  $4\sqrt{2}$  cm (d) 16 cm  
Ans. (a)
17. The maximum length of a pencil that can be kept in a rectangular box of dimensions 8 cm x 6 cm x 2 cm. is  
a.  $2\sqrt{13}$  cm (b)  $2\sqrt{14}$  cm (c)  $2\sqrt{26}$  cm (d)  $10\sqrt{2}$  cm  
Ans. (c)

**Directions for Question Nos. 18 to 19:** based on the information given below

The Venn diagram given below shows the estimated readership of 3 daily newspapers (X, Y & Z) in a city. The total readership and advertising cost for each of these papers is as below

Newspaper	Readership (lakhs)	Advertising cost (Rs. per sq.cm)
X	8.7	6000
Y	9.1	6500
Z	5.6	5000

The total population of the city is estimated to be 14 million. The common readership (in lakhs) is indicated in the given venn diagram





