

## EXERCISE

1. A student has to obtain 35% of the total marks to pass. He got 165 marks and failed by 45 marks. The maximum marks are :  
(a) 300 (b) 500 (c) 800 (d) 600
2. A's salary is first increased by 40% and then decreased by 50%. The result is the same as B's salary increased by 50% and then decreased by 40%. Find the ratio of B's salary to A's salary ?  
(a) 10 : 9 (b) 6 : 7 (c) 7 : 9 (d) 9 : 10
3. A% of B is B% of :  
(a) A (b) B/100 (c) A/100 (d) 100A
4. The length of a rectangular plot is increased by 10% to keep its area unchanged, the width of the plot should be:  
(a) Kept unchanged (b) increased by 10%  
(c) increased by  $9\frac{1}{11}\%$  (d) Reduced by  $9\frac{1}{11}\%$
5. A salesman averages Rs. 390 during a normal 30 h week. During a sale, his rates are increased by 50%. What is his commission if he puts in 50 h during the sale ?  
(a) 650 (b) 540 (c) 600 (d) 975
6. A is 5 times as large as B. then percent by which B is less than A, is :  
(a)  $83\frac{1}{3}\%$  (b)  $16\frac{2}{3}\%$  (c) 90% (d) 80%
7. Sunanda secured 40% marks in Hindi, 50% in English, 60% in Maths and 70% in Science. What were his total marks if the maximum marks obtained in each of these 4 subjects was 60 ?  
(a) 125 (b) 120 (c) 132 (d) 150
8. Milk contains 6% water. What quantity of pure milk should be added to 15 liters of milk to reduce this to 4%  
(a) 6.5 liters (b) 7 liters  
(c) 7.5 liters (d) can't be determined
9. A man spends 25% of his income on food, 45% on children's education and 70% of the remaining on house rent. What percent of his income he is left with ?  
(a) 8% (b) 10% (c) 9% (d) 14%
10. A bag contains 800 coins of 25 p and 1600 coins of 50 p. If 16% of 25 p coins and 32% of 50 p coins are removed, the percentage of money removed from the bag is nearly :  
(a) 15.6% (b) 17.8% (c) 21.6% (d) 28.8%
11. The length of a rectangle is increased by 30% and breadth is decreased by 15%. Calculate the percentage change in the area.  
(a) 8.5% (b) 8% (c) 10% (d) 10.5%
12. When the price of sugar was increased by 30%, a family reduced its consumption in such a way that the expenditure on sugar was only 30% more than before. If 25 kg were consumed per month before, find the new monthly consumption.  
(a) 20 Kg (b) 25 Kg (c) 30 Kg (d) 35 Kg
13. A scored 30% marks and failed by 18 marks. B scored 35% marks and obtained 12 marks more than those required to pass. The pass percentage is :  
(a) 33% (b) 38% (c) 43% (d) 46%
14. The price of a table is Rs. 350 more than that of a chair. If 7 tables and 7 chairs together cost Rs. 4550, by what percent is the price of the chair less than that of the table ?  
(a) 75 % (b) 70% (c) 65 % (d) None
15. A reduction of 23% in the price of Rice enables a person to buy 11.5 kg. more for Rs. 100. what is the reduced price per Kg. ?  
(a) Rs 1/Kg (b) Rs 2/ Kg (c) Rs 3/Kg (d) Rs 4/Kg
16. In a hotel, 70% had vegetarian lunch while 20% had non-vegetarian lunch and 10% had both types of lunch. If 120 people were present, how many did not eat either type of lunch ?  
(a) 20 (b) 24 (c) 26 (d) 28
17. The price of a television includes the manufacturing cost, 10% sales tax and 20% profit. What is the manufacturing cost, if the price is Rs. 16,900 ? (Sales tax and profit are to be calculated on manufacturing cost.)  
(a) 10,000 (b) 12,000 (c) 13,000 (d) 9,000
18. To a sugar solution of 4 liters containing 30% sugar, one liter of water is added. The percentage of sugar in the new solution is :  
(a) 13 % (b) 15% (c) 30% (d) 24%
19. Rama's Mathematics Test had 80 problems i.e., 40 arithmetic, 30 algebra and 10 geometry problems. Although she answered 80% of the arithmetic, 60% of the algebra and 50% of the geometry problems correctly, she did not pass the test because she got less than 75% of the problems right. How many more questions she must have attempted correctly to earn a 75% passing grade ?  
(a) 5 (b) 10 (c) 15 (d) 20