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