

Logical Connectives

Practice Exercise

- 1) Rs 705 is divided into three parts in the ratio $\frac{1}{3} : \frac{1}{4} : \frac{1}{5}$, what amounts to the second part?
- a) Rs.250 b) Rs.225 c) Rs.300 d) Rs.150
- 2) If $P : Q = 5 : 4$, $Q : R = 3 : 5$, $R : S = 4 : 3$ then What is $P : Q : R : S$?
- a) 60 : 12 : 20 : 30 b) 30 : 15 : 20 : 15 c) 60 : 12 : 40 : 15 d) 15 : 12 : 20 : 15
- 3) 2 pens cost as much as 5 pencils, 1 pencil cost as much as 3 erasers, 4 erasers cost as much as 3 books. If the cost of 8 pens is Rs.135. Find the cost of each book?
- a) Rs.7 b) Rs.6 c) Rs.3 d) Rs.2.5
- 4) The salaries of A, B and C were in the ratio 5 : 6 : 8 respectively. If their salaries were increased by 20%, 50% and 50% respectively, then what will be the new ratio of their respective salaries?
- a) 2 : 3 : 4 b) 4 : 5 : 7 c) 3 : 4 : 5 d) 1 : 3 : 5
- 5) Rs.3760 be divided among A, B and C such that A gets $\frac{5}{7}$ of what B gets and B gets $\frac{1}{5}$ of what C gets, find the share of A?
- a) Rs.700 b) Rs.560 c) Rs.750 d) Rs.400
- 6) Manish, Rahul and Bharti have some stones with each of the. 5 times the number of stones with Rahul equals 7 times the number of stones with Manish while 5 times the number of stones with Manish equals 7 times the number of stones with Bharti. What is the minimum number of stones that can be there with all three of them put together?
- a) 113 b) 109 c) 93 d) 97
- 7) An sum of money is to be divided among A, B and C in the ratio of 4 : 11 : 5 respectively. If the amount received by A is Rs.105 less than the amount received by B, what will be the total amount received by B and C together?
- a) Rs.250 b) Rs.225 c) Rs.300 d) Rs.240

- 8) A mixture contains milk and water in the ratio of 4 : 3. On adding 6 litres of water, the ratio of milk and water becomes 1 : 1. The quantity of milk in the mixture is.
- a) 18 litres b) 16 litres c) 20 litres d) 24 litres
- 9) 44 litres of mixture contains wine and water in the ratio of 5 : 6. How much wine must be added to it so that the ratio of wine and water becomes 2 : 1 ?
- a) 24 litres b) 18 litres c) 20 litres d) 28 litres
- 10) A dealer buys dry fruits at Rs.70, Rs.60 and Rs.50 per kilogram. He mixes them in the ratio 5 : 6 : 9 by weight. And sells at a profit of 25%. At what price per kilogram does he sell the dry fruit?
- a) Rs.70 b) Rs.71.5 c) Rs.72.5 d) Rs.75
- 11) Rs.1180 is divided among A, B and C such that 5 times of A's, 6 times of B's and 8 times of C's shares are equal. What is the share of A?
- a) Rs.280 b) Rs.400 c) Rs.300 d) Rs.480
- 12) A and B are two alloys of gold and copper prepared by metals in the ratio of 7 : 2 and 7 : 11 respectively. If equal quantities of A and B are melted to form a third alloy C, then what is the ratio of gold and copper in alloy C?
- a) 5 : 7 b) 7 : 5 c) 4 : 5 d) None
- 13) Rs.1820 among three persons A, B and C such that A gets $\frac{5}{9}$ as much as B and C together gets and B gets $\frac{6}{7}$ as much as A and C together. What is the share of C?
- a) 330 b) 650 c) 330 d) None
- 14) The ratio of Science and Arts students in a college is 4 : 3. If 14 Science students shift to Arts then the ratio becomes 1 : 1. Find the total strength of Science and Arts students
- a) 156 b) 225 c) 28 d) 196
- 15) The salaries of A, B and C are of ratio 2 : 3 : 5. If the increments of 5%, 10% and 20% are done to their respective salaries, then find the new ratio of their salaries
- a) 7 : 11 : 20 b) 21 : 34 : 60 c) 22 : 33 : 60 d) 23 : 33 : 60
- 16) The income of A and B are in the ratio 5 : 3 and their expenditures are in the ratio 4 : 5. What is income of A, if A saves Rs.2200, whereas B saves Rs.800?
- a) Rs.1500 b) Rs.2000 c) Rs.3000 d) Rs.1000

17) A bag contains 20 paise, 50 paise and 1 rupee coins in the ratio 5 : 4 : 3, amounting to Rs.66 respectively. Find the total number of coins.

- a) 90 b) 100 c) 132 d) None

18) Find the mean proportion of 0.5 and 24.5.

- a) 3.2 b) 3.5 c) 2.5 d) 3

19) Two containers of equal capacity are full of a mixture of oil and water. In the first, the ratio of oil to water is 3 : 7 and in the second 9 : 11. Now both the mixtures are mixed in a bigger container. What is the resulting mixture of the oil and water?

- a) 5 : 7 b) 5 : 9 c) 22 : 17 d) 3 : 5

20) What will be the ratio of milk and water in the mixture formed by mixing milk and water that are present in three vessels in the ratio 4 : 3, 5 : 2 and 3 : 2 respectively ?

- a) 22 : 35 b) 22 : 13 c) 22 : 15 d) 13 : 22



Check the Answers

1	B	6	B	11	D	16	C
2	D	7	D	12	B	17	C
3	C	8	D	13	A	18	B
4	A	9	D	14	D	19	D
5	D	10	C	15	A	20	B