**RATIOS – Test Paper**

1) A: B: C is in the ratio of 3:2:5. How much money will C get out of Rs. 1260?

A) 0

B) 300

C) 540

D) 630

D

2) Rs.7800 is distributed among P, Q, and R. The share of "P" is the ¾ of the share of Q, and the share of Q is the 2/3 of the share of R. Find the difference between the share of Q and R?

A) 1000

B) 1100

C) 1200

D) 1400

C

3) The ratio of chocolates and biscuits in a 63 kg bag is 4: 3. Some no. of chocolates is taken out from the bag, and the ratio becomes 10: 9. How much chocolate is taken out from the bag?

2

4

6

8

C

4) P and Q together have Rs. 605. If (8/30) of P's amount is equal to (4/10) of Q's amount, how much amount does Q have?

A) 224

B) 242

C) 260

D) 276

B

5) Seats for Nursery, LKG and UKG in a school are in the ratio 5 : 6 : 7. There is a proposal to increase these seats by 40%, 50% and 60% respectively. What will be the ratio of increased seats?

A) 35:45:55

B) 20:30:40

C) 0.65005787

D) 35:45:56

D

6) Two numbers are respectively 30% and 60% more than a third number. The ratio of the two numbers is?

A) 11:19

B) 14:17

C) 13:16

D) 15:19

C

7)In a mixture 60 kg, the ratio of meat to fat is 2 : 1. If this ratio is to be 1 : 2, then the quantity of fat to be further added is?

A) 40

B) 60

C) 50.55

D) 100

B

8) The sum of three numbers is 294. If the ratio of the first to second is 4 : 6 and that of the second to the third is 10 : 16, then the second number is?

A) 30

B) 45

C) 60

D) 90

D

9) Two number are in the ratio 1 : 3. If 8 is subtracted from each, the new numbers are in the ratio 13 : 29. The smaller number is?

A) -38.4

B) -12.8

C) 12.8

D) 38.4

C

10) The ratio of first, second and third numbers is 1 : 2 : 3 respectively. If 30 percent of the first number is 48, then what would be 50 percent of the difference of third and second number?

60

80

100

None

Ans 80

11) If the ratio of boys to girls in a class is 8 : 5, which of the following option could be the total number of students in that class?

81

78

57

67

B

12) If A is 25% less than B, then what will be the value of (2B - A)/A ?

5/4

3/2

3/4

5/3

D

13) The ratio of the age of a man and his wife is 4 : 3. After 4 years, this ratio will be 9 : 7. If at the time of the marriage, the ratio was 5:3, then how many years ago they were married?

[1] 12 years

[2] 8 years

[3] 10 years

[4] 15 years

A

14) The number of coins collected per week by two coin-collectors A and B are in the ratio 3: 4. If the total number of coins collected by A in 5 weeks is a multiple of 7, and the total number of coins collected by B in 3 weeks is a multiple of 24, then the minimum possible number of coins collected by A in one week is

35

37

40

42

D

15) In a village, the ratio of number of males to females is 5: 4. The ratio of number of literate males to literate females is 2: 3. The ratio of the number of illiterate males to illiterate females is 4 : 3. If 3600 males in the village are literate, then the total number of females in the village is

43200

37800

25600

5400

A

16) In an examination, Rama's score was one-twelfth of the sum of the scores of Mohan and Anjali. After a review, the score of each of them increased by 6. The revised scores of Anjali, Mohan, and Rama were in the ratio 11:10:3. Then Anjali's score exceeded Rama's score by

(a) 26

(b) 32

(c) 24

(d) 35

B

17) A mixture contains sugar solution and colored water in the ratio of 4 : 3. If 10 liters of colored water is added to the mixture, the ratio becomes 4: 5. Find the initial quantity of sugar solution in the given mixture.

10

15

20

30

C

18) The ratio of the age of a man and his wife is 6:5. After 16 years, the ratio becomes 10:9. Find the husband’s age when the wife was born.

24

16

8

4

D

19) B is inversely proportional to the cube of A. If B=3, A=2. If B = 8/9. Find the value of A.

3

5

6

4

Ans A

20) If 2a : 5b = 1 : 3 and 2c : 5b = 3 : 2, then a : b : c is equal to:

10 : 12 :45

45 : 12 : 10

12 : 10 : 45

45 : 10 : 12

Option A

**PART 2-----------------------------------------------------**

1. Rs. 5783 is divided among Aman, Balan, and Chintan in such a way that if Rs. 28, Rs. 37 and Rs. 18 are deducted from their respective shares, they have money in the ratio 4:6:9. Find Aman’s share.

a. 1228

b. 1245.5

c. 1328

d. 1356

A

2. Rs. 3650 is divided among 4 engineers, 3 MBAs and 5 CAs such that 3 CAs get as much as 2 MBAs and 3 Engineers as much as 2 CAs. Find the share of an MBA.

a. 300

b. 450

c. 475

d. None of these

B

3. Divide Rs. 1400 into three parts in such a way that half of the first part, one-fourth of the second part and one-eighth of the third part are equal.

a. 300, 600, 500

b. 200, 400, 800

c. 100, 400, 1000

d. None of these

B

4. The ratio of water and milk in a 30-litre mixture is 7: 3. Find the quantity of water to be added to the mixture in order to make this ratio 6:1

a. 30

b. 32

c. 33

d. 35

C

5) If the salaries of A,B,C are in the ratio of 4:5:6. If the increments of 20%,25% and 30% are allowed respectively in their salaries, then what will be the new ratio of their salaries?

20:21:22

25:24:26

24:25:27

None of these

D

6) If a : b = 5 : 7, find (7a+3b) : (5a-2b).

5 : 7

8 : 11

56 : 11

11 : 8

C

7) Ramesh and Suresh were getting the salary in the ratio 19 : 24, If the salary of each is increased by Rs. 7000, the new ratio becomes 9 : 11. What is Ramesh’s present salary?

Options

- 55000

- 48000

- 38000

- 45000

C

8) A sum of Rs. 1800 is divided amongst A, B, C, D such that, A’s share/ B’s Share= B’s Share/ C’s share= C’s share / D’s share= 1/2, Then D’s share is :

Options

- 480

- 120

- 240

- 960

D

9) The least whole number which when subtracted from both the terms of the ratio 8:9 gives a ratio less than 5:6 is :

Options

- 2

- 3

- 4

- 5

B

10) Four numbers in the ratio 1:2:4:8 add up to give a sum of 120. Find the value of the biggest number.

a. 40

b. 30

c. 64

d. 60

C

11) The ratio of the age of a man and his wife is 4 : 3. After 4 years, this ratio will be 9 : 7. If at the time of the marriage, the ratio was 5:3, then how many years ago they were married?

a. 8 years

b. 12 years

c. 10 years

d. 15 years

B

12. If ₹ 232 is divided among 150 children such that each girl and each boy gets ₹1 and ₹2 respectively. Then how many girls are there?

a. 52

b. 54

c. 68

d. 62

C

13) The ratio of a two-digit natural number to a number formed by reversing its digits is 4:7. The number of such pairs is (UPSC 2019)

a. 5

b. 4

c. 3

d. 2

B

14) A sum of Rs. 2,500 is distributed among X, Y and Z in two ratio 1/2 ∶ 3/4 ∶ 5/6. What is the difference between the maximum share and the minimum share? (UPSC 2020)

a. Rs 300

b. Rs. 350

c. Rs. 400

d. Rs. 450

C

15) The sum of three numbers is 98. if the ratio of the first to the second is 2: 3 and that or the second to the third is 5 : 8, then the second number is:

20

30

48

58

B

16) A student appeared in 6 papers. The maximum marks are the same for each paper. His marks in these papers are in the proportion of 5: 6: 7: 8: 9: 10. Overall he scored 60%. In how many numbers of papers did he score less than 60% of the maximum marks? (UPSC 2021)

a. 2

b. 3

c. 4

d. 5

B

17. Out of 120 applications for a post, 70 are males and 80 have a driver license. What is the ratio of between the minimum to maximum number of males having driver's license.

(UPSC 2013)

a.1:2

b.2:3

c.3:7

d.5:7

C

18) A person distributes Rs. 61,600 among 11 men, 13 women and 3 children. If each woman receives four times as much as each children and each man receives 200% more than what a child receives, how much does each woman receive?

A Rs. 3,200

B Rs. 4,500

C Rs. 1,900

D Rs. 2,800

D

19) The raw material cost of an article is 1/3 of its manufacture cost. If the cost of manufacturing is decreased in the ratio of 4 : 3 and the cost of its raw material is increased in the ratio of 4 : 5, then overall cost of article reduced by Rs. 4. Find out its initial cost?

A Rs. 32

B Rs. 24

C Rs. 36

D Rs. 48

A

20) The ratio of the monthly incomes of Dinesh, Nikhil and Rohan is 64:73:81. If Dinesh’s monthly income is 10,496, then find Rohan’s annual income.

A 159408

B 120284

C 132482

D 231284

A