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Name: S. J.

Exam Date: 09-Sep-2022

Exam Time: 15:00-16:30

Post Name: SI Traffic Arithmetics

Arithmetic - Arithmetic**Question No.1**

Solve:

$$14.2 \times (15 \div 16) \times 12 \times 8 = ?$$

- (A) 1478
(B) 1278 (Correct Answer) (Chosen option)
(C) 1378
(D) 1178

Question No.2

2 men and 3 boys can do a piece of work in 90 days while 3 men and 2 boys can do the same work in 72 days. In how many days can 5 men and 5 boy do the work?

- (A) 44
(B) 46
(C) 40 (Correct Answer) (Chosen option)
(D) 42

Question No.3

The price of a camera is Rs.10829 inclusive of sales tax. If the rate of sales tax is 19%, find the printed price of the camera.

- (A) 9200
(B) 9100 (Correct Answer)
(C) 9400
(D) 9300

Question No.4

A man travels at a speed of 828 kmph and covers a certain distance in 35 seconds. Find the distance covered. (In metres)

- (A) 8250
(B) 8350
(C) 8050 (Correct Answer)
(D) 8150

Question No.5

If a traveller covers a distance of 6785 metres in 23 seconds, find the speed of the traveller. (In kmph)

- (A) 1062 (Correct Answer) (Chosen option)
(B)



- (B) 1262
(C) 1162
(D) 1362

Question No.6

B

A sum of Rs.6100 earns an interest of Rs.3660 in 4 years at what rate of simple interest?

- (A) 20
(B) 5
(C) 10
(D) 15 (Correct Answer) (Chosen option)

Question No.7

B

The rate of sales tax on the marked price of an article is 12% and it is available at Rs.4368. If the rate of sale tax increases to 14%, find the price at which the article is available. (In Rs.)

- (A) 4446 (Correct Answer)
(B) 4146
(C) 4246
(D) 4346

Question No.8

B

If 1123% of $X = 1453\%$ of 1123 , what is the value of X ?

- (A) 1453 (Correct Answer) (Chosen option)
(B) 1353
(C) 1253
(D) 1553

Question No.9

B

A can finish a work in 30 days and B can do the same work in 60 days. Working together, they will complete the same work in how many days?

- (A) 18
(B) 20 (Correct Answer) (Chosen option)
(C) 24
(D) 22

Question No.10

B

Solve:

$$123 - (123 \div 5) = ?$$

- (A) 96.4
(B) 98.4 (Correct Answer) (Chosen option)
(C) 97.4
(D) 95.4

Question No.11

B

A man covered a distance of 4809 km at speed of 229 kmph. Find the time taken to

cover the given distance. (In hours)

- (A) 23
(B) 27
(C) 21 (Correct Answer) (Chosen option)
(D) 25

Question No.12

If Jitesh drives from Mumbai to Pune at 47 kmph and returns from Pune to Mumbai in the same direction at 53 kmph, what is his average speed for the whole journey? (In kmph)

- (A) 48.82
(B) 49.82 (Correct Answer) (Chosen option)
(C) 46.82
(D) 47.82

Question No.13

Lokesh buys a pair of shoes whose marked price is Rs.2100. He has to pay a sales tax of Rs.126. Find the rate of sales tax. (In %)

- (A) 8
(B) 7
(C) 6 (Correct Answer) (Chosen option)
(D) 5

Question No.14

A rice bag is bought for Rs.8600 and sold at a gain of 20%. Find its selling price. (In Rs.)

- (A) 13320
(B) 10320 (Correct Answer) (Chosen option)
(C) 11320
(D) 12320

Question No.15

A train passes through a telegraph post in 66 seconds moving with a speed of 486 km per hour. Find the length of the train.(in metres)

- (A) 8810
(B) 8710
(C) 8610
(D) 8910 (Correct Answer) (Chosen option)

Question No.16

The price of a colour TV is Rs.12384, inclusive of sales tax. If the printed price of the colour TV be Rs.9600 then find the rate of sales tax. (In %)

- (A) 25
(B) 27
(C) 29 (Correct Answer)
(D) 23

Question No.17

The ratio of wine and juice in a 55 liters mixture is 6:5. Find the quantity of wine to be added to the mixture in order to make this ratio 2:1. (In liters)

- (A) 25
(B) 15
(C) 30
(D) **20 (Correct Answer)** (Chosen option)

Question No.18

A starts business with Rs.6300 and after 5 months, B joins with A as his partner. After a year, the profit is divided in the ratio 3:2. What is B's contribution in the capital? (In Rs.)

- (A) 7300
(B) 7100
(C) 7400
(D) **7200 (Correct Answer)** (Chosen option)

Question No.19

6100 candidates appeared for an examination, of which 3843 failed. Find the fail percentage.

- (A) 61
(B) 67
(C) 65
(D) **63 (Correct Answer)** (Chosen option)

Question No.20

Pipe A can fill a tank in 126 minutes and Pipe B can fill the same tank in 252 minutes. If both pipes are opened together, how many minutes will it take to fill the empty tank?

- (A) 86
(B) **84 (Correct Answer)** (Chosen option)
(C) 82
(D) 88

Question No.21

Anil can do a piece of work in 96.5 days. Aswin is 25% more efficient than Anil. Find the number of days taken by Aswin to do the same piece of work.

- (A) 79.2
(B) 73.2
(C) 75.2
(D) **77.2 (Correct Answer)** (Chosen option)

Question No.22

If 35% of X is 4403, find X.

- (A) 14580
(B) 11580
(C) **12580 (Correct Answer)** (Chosen option)
(D) 13580

Question No.23

Solve:

$$(24 \div 8) + (32 \div 8) = ?$$

- (A) 5
(B) 9
(C) 3
(D) 7 (Correct Answer) (Chosen option)

Question No.24

If 65% of a number is added to 2625, then the result is the number itself. Find the number.

- (A) 7200 (Chosen option)
(B) 7400
(C) 7500 (Correct Answer)
(D) 7300

Question No.25

A man travels at a speed of 144 kmph and covers a certain distance in 36 minutes. Find the distance covered in metres.

- (A) 84400
(B) 85400
(C) 87400
(D) 86400 (Correct Answer) (Chosen option)

Question No.26

Find the sum invested at compound interest at 30% per annum which will amount to Rs.4394 in 2 years.

- (A) 2600 (Correct Answer) (Chosen option)
(B) 2700
(C) 2500
(D) 2800

Question No.27

89% of the population of a village is 20915. Find the total population of the village.

- (A) 21500
(B) 24500
(C) 23500 (Correct Answer) (Chosen option)
(D) 22500

Question No.28

A pen is bought for Rs.13600 and sold at Rs.16320. Find the gain percentage.

- (A) 15 (Chosen option)
(B) 25
(C) 20 (Correct Answer)



(D) 30

Question No.29

If average of 11 numbers is 15, find their sum.

- (A) 165 (Correct Answer) (Chosen option)
(B) 169
(C) 163
(D) 167

Question No.30

An article is bought for Rs.11440 and sold at a loss of 10%. Find its selling price. (In Rs.)

- (A) 12296 (Chosen option)
(B) 10296 (Correct Answer)
(C) 11296
(D) 13296

Question No.31

The average of 8 numbers is 9. The average of 4 numbers of them is 7. What will be the average of remaining numbers?

- (A) 11 (Correct Answer) (Chosen option)
(B) 13
(C) 17
(D) 15

Question No.32

Average of 1st and 5th number in 5 consecutive number is 22. Find the sum of 5 numbers.

- (A) 100
(B) 110 (Correct Answer) (Chosen option)
(C) 130
(D) 120

Question No.33

Solve:

$$404 \times 2.55 = ?$$

- (A) 1230.2
(B) 1330.2
(C) 1130.2 (Chosen option)
(D) 1030.2 (Correct Answer)

Question No.34

How many seconds will Messi take to cover a distance of 1925 meters, if he runs at a speed of 198 km/hr?

- (A) 35 (Correct Answer) (Chosen option)
(B) 39

- (C) 33
(D) 37

Question No.35

Pipe A can fill a tank in 396 minutes and Pipe B can empty the same tank in 495 minutes. If both pipes are opened together, how many hours will it take to fill the empty tank?

- (A) 37
(B) 33 (Correct Answer)
(C) 31
(D) 35

Question No.36

Solve:

$$2.832 - (0.6 \times 0.4 \times 0.3) = ?$$

- (A) 5.75
(B) 2.76 (Correct Answer) (Chosen option)
(C) 4.75
(D) 3.76

Question No.37

A man travels at a speed of 108 kmph and covers a distance of 1182 meters, find the time taken to cover the distance. (In seconds)

- (A) 37.4
(B) 39.4 (Correct Answer) (Chosen option)
(C) 38.4
(D) 36.4

Question No.38

At the end of two years, what will be the compound interest at the rate of 10% p.a. on an amount of Rs.7400?

- (A) 1354
(B) 1554 (Correct Answer) (Chosen option)
(C) 1454
(D) 1654

Question No.39

The average of 11 observations is 43. A new observation is included and the new average is decreased by 1. Find the 12th observation.

- (A) 35
(B) 37
(C) 31 (Correct Answer) (Chosen option)
(D) 33

Question No.40

The average of 9 consecutive numbers is 45. Find the smallest of these numbers.

- (A) 45
(B) 47
(C) 43
(D) **41 (Correct Answer)** (Chosen option)

Question No.41

The average income of A and B is Rs.5000 and that of X and Y is Rs.6500. What is the average income of all the four people? (In Rs.)

- (A) 5950
(B) **5750 (Correct Answer)** (Chosen option)
(C) 5550
(D) 5250

Question No.42

Simple interest on a sum at 20% per annum for 2 years is Rs.720. Find the amount under compound interest on the same sum for the same period. (In Rs.)

- (A) 2392
(B) **2592 (Correct Answer)**
(C) 2492
(D) 2292 (Chosen option)

Question No.43

Messi is twice good a workman as Neymar and together they can finish the same work in 10 days. In how many days will Messi alone finish the same work?

- (A) 5
(B) 10
(C) **15 (Correct Answer)** (Chosen option)
(D) 20

Question No.44

If the cost price of 432 pens is equal to the selling price of 360 pens, find the gain percent. (In %)

- (A) 15
(B) **20 (Correct Answer)** (Chosen option)
(C) 25
(D) 30

Question No.45

Find the time when:(in years)

Principal = Rs.9425, SI = Rs.16965 and rate = 12% p.a.

- (A) 5
(B) 10
(C) 20
(D) **15 (Correct Answer)**

Question No.46

A shop keeper had some books in stock. After selling 71% of the stock, he has 5858 books. How many books he initially had?

- (A) 20200 (Correct Answer) (Chosen option)
(B) 21200
(C) 22200
(D) 23200

Question No.47

Solve:

$$26.25 - 42.65 - 13.75 + 88.95 = ?$$

- (A) 58.8 (Correct Answer) (Chosen option)
(B) 57.8
(C) 55.8
(D) 56.8

Question No.48

A person saves 24% of his monthly salary after expenses. If his expenses for the month is Rs.34580, then find his monthly salary. (In Rs.)

- (A) 45500 (Correct Answer)
(B) 43500
(C) 44500
(D) 42500

Question No.49

The shopkeeper bought an article for Rs.9800 and sold it for Rs.8820. Find the loss percentage.

- (A) 20
(B) 15
(C) 25
(D) 10 (Correct Answer) (Chosen option)

Question No.50

Find the average of 44, 84, 62, 74 and 46.

- (A) 66
(B) 68
(C) 62 (Correct Answer) (Chosen option)
(D) 64

Question No.51

A merchant sells an article at a rate of Rs.13800 and earns a profit of 20%. Find the cost price of the article. (In Rs.)

- (A) 14500
(B) 13500
(C) 11500 (Correct Answer) (Chosen option)
(D) 12500

Question No.52

Jisha travels at a speed of 123 kmph and she reaches the destination in 37 hours. Find the distance she travelled. (In km)

- (A) 4751
(B) **4551 (Correct Answer)** (Chosen option)
(C) 4651
(D) 4451

Question No.53

The printed price of a System monitor is Rs.8300. If a sales tax of 9% is realised from the buyer, find the price at which the System monitor is sold? (In Rs.)

- (A) **9047 (Correct Answer)**
(B) 9147
(C) 9247
(D) 9347

Question No.54

An article is bought for Rs.12520 and sold at Rs.15650. Find 25% of the profit. (In Rs.)

- (A) 752.5
(B) **782.5 (Correct Answer)**
(C) 772.5
(D) 762.5

Question No.55

A sum of money at simple interest amounts to Rs.8125 in 1 year and to Rs.9750 in 2 years. Find the sum. (In Rs.)

- (A) 6600
(B) **6500 (Correct Answer)**
(C) 6300
(D) 6400

Question No.56

When an article is sold at Rs.11790, it incurred a loss of 10%. Find the cost price of the article. (In Rs.)

- (A) 12100
(B) 14100
(C) 11100
(D) **13100 (Correct Answer)** (Chosen option)

Question No.57

X can do a piece of work in 288 days. X worked at it for 64 days and then Y finished the remaining work in 224 days. In how many days can X and Y together finish the work?

- (A) 142
(B) **144 (Correct Answer)**
(C) 146

(D) 148

Question No.58

Find 25% of 30% of 16400.

- (A) **1230 (Correct Answer)** (Chosen option)
(B) 1130
(C) 1430
(D) 1530

Question No.59

Solve:

$$443 + (221 \div 5) = ?$$

- (A) 497.2
(B) 477.2
(C) 467.2
(D) **487.2 (Correct Answer)** (Chosen option)

Question No.60

By selling a watch for Rs.10421, a man loses 15%. Find the cost price of the watch. (In Rs.)

- (A) 14260
(B) 13260
(C) 11260
(D) **12260 (Correct Answer)** (Chosen option)

Question No.61

Average marks obtained by Nithya in 3 papers is 62 and in the fourth paper, she scored 70 marks. Find the new average of marks scored by Nithya.

- (A) 68
(B) 66
(C) **64 (Correct Answer)** (Chosen option)
(D) 62

Question No.62

Find the amount under simple interest on Rs.4200 at 15% per annum for 1.5 years. (In Rs.)

- (A) 5445
(B) **5145 (Correct Answer)**
(C) 5345
(D) 5245

Question No.63

The difference between simple interest and compound interest at the same rate for Rs.4800 for 2 years is Rs.108. Find the rate of interest.

- (A) **15 (Correct Answer)** (Chosen option)
(B) 10

- (C) 5
(D) 20

Question No.64

A man covered 605 km in 11 hours. Find the speed at which he travelled. (In kmph)

- (A) 57
(B) 59
(C) 61
(D) **55 (Correct Answer)** (Chosen option)

Question No.65

The average of 50 numbers is 38. If two numbers 55 and 45 are discarded, then find the average of the remaining set of numbers.

- (A) 35.5
(B) 33.5
(C) **37.5 (Correct Answer)** (Chosen option)
(D) 31.5

Question No.66

If 15% of a certain number is 1425, then what is 105% of that number?

- (A) 9775
(B) 9675
(C) 9875
(D) **9975 (Correct Answer)** (Chosen option)

Question No.67

Find the simple interest on Rs.7200 at 5% per annum for 6 years. (In Rs.)

- (A) **2160 (Correct Answer)** (Chosen option)
(B) 2460
(C) 2260
(D) 2360

Question No.68

What percent of 12 kg is 1500 gms?

- (A) 14.5
(B) 13.5
(C) **12.5 (Correct Answer)** (Chosen option)
(D) 15.5

Question No.69

An article is bought for Rs.14424 and sold at Rs.10818. Find 50% of the loss. (In Rs.)

- (A) 1703
(B) 1603
(C) 1503
(D)

(D) **1803 (Correct Answer)**

Question No.70

If $3(\text{A's capital}) = 4(\text{B's capital}) = 5(\text{C's capital})$, then find the ratio of their capitals.

- (A) 20:17:12
(B) 20:15:17
(C) **20:15:12 (Correct Answer)** (Chosen option)
(D) 20:15:13

Question No.71

The rate of sales tax on trousers is 6%. One can buy a pair of trousers at Rs.13568. What is the marked price on a pair of trousers? (In Rs.)

- (A) **12800 (Correct Answer)**
(B) 12900
(C) 12700
(D) 12600

Question No.72

Find the average of first five multiples of 11.

- (A) **33 (Correct Answer)** (Chosen option)
(B) 31
(C) 35
(D) 37

Question No.73

Find the amount on Rs.8800 for 2 years at 10% per annum, compounded annually. (In Rs.)

- (A) 12648
(B) 13648
(C) **10648 (Correct Answer)** (Chosen option)
(D) 11648

Question No.74

Find the average of first five prime numbers greater than 30.

- (A) 35.8
(B) 33.8
(C) 37.8
(D) **39.8 (Correct Answer)**

Question No.75

93 men can type 93 lines in 93 minutes. How many men are required to type 744 lines in 744 minutes?

- (A) 95
(B) 91
(C) 97

(D) 93 (Correct Answer) (Chosen option)

Question No.76

A works twice as fast as B. If B can complete a work in 96 days independently, in how many days A and B together can finish the work?

- (A) 32 (Correct Answer) (Chosen option)
(B) 30
(C) 34
(D) 36

Question No.77

In what proportion must rice at Rs.17.20 per kg be mixed with rice at Rs.17.60 per kg, so that the mixture be worth Rs.17.40 a kg?

- (A) 3:1
(B) 2:1
(C) 1:2
(D) 1:1 (Correct Answer) (Chosen option)

Question No.78

14 kg of rice A at Rs.6 per kg is mixed with 6 kg of rice B to get a mixture costing Rs.8.4 per kg. Find the cost price of rice B. (In Rs.)

- (A) 16 (Chosen option)
(B) 14 (Correct Answer)
(C) 18
(D) 12

Question No.79

Solve:

$$(408 \div 255) \times (272 \div 340) = ?$$

- (A) 1.88
(B) 1.68
(C) 1.48
(D) 1.28 (Correct Answer)

Question No.80

K, L, M together started a business. K invested Rs.6300 for 3 months, L invested Rs.3800 for 5 months and M invested Rs.7700 for 6 months. If they get a total profit of Rs.8410. Find the share of L? (In Rs.)

- (A) 1700
(B) 1900 (Correct Answer)
(C) 1600
(D) 1800

Question No.81

The price of an article increases from Rs.16100 to Rs.23989. Find the increase percentage. (In %)

- (A) 50% increase
(B) **49% increase (Correct Answer)** (Chosen option)
(C) 49% decrease
(D) 50% decrease

Question No.82

X and Y invest Rs.5200 and Rs.6200 respectively in a business. If X doubles his capital after 6 months, in what ratio should X and Y divide that year's profit?

- (A) 31:39
(B) 39:41
(C) **39:31 (Correct Answer)** (Chosen option)
(D) 41:39

Question No.83

Solve:

$$660.75 + 302.55 - 552.15 = ?$$

- (A) 441.15
(B) 431.15
(C) 421.15
(D) **411.15 (Correct Answer)** (Chosen option)

Question No.84

The cost difference between the selling prices of an article at a profit of 18% and 23% is Rs.90. Find the selling price of the article with 5% profit. (In Rs.)

- (A) 1790
(B) 1690
(C) **1890 (Correct Answer)**
(D) 1990

Question No.85

Two varieties of sugar B1 and B2 cost Rs.60 and Rs.70 per kg respectively. In what ratio must B1 and B2 be mixed such that the cost price of the resultant sugar is Rs.63 per kg?

- (A) 7:5
(B) **7:3 (Correct Answer)** (Chosen option)
(C) 3:7
(D) 5:7

Question No.86

Find the simple interest on Rs.11600 at 25% per annum for 6 months. (In Rs.)

- (A) 1550
(B) **1450 (Correct Answer)** (Chosen option)
(C) 1350
(D) 1250

Question No.87

3 litres is drawn from a cask full of wine and is then filled with water. This operation is performed once more. The ratio of the quantity of wine now left in cask to that of the water is 25:11. How much wine did the cask hold originally? (In litres)

- (A) 16
(B) 18 (Correct Answer)
(C) 12
(D) 14

Question No.88

A is thrice as good as workman as B and therefore is able to finish a job in 186 days less than B. Then A can do it in how many days?

- (A) 91
(B) 93 (Correct Answer) (Chosen option)
(C) 95
(D) 97

Question No.89

How much tea of variety A, costing Rs.24 a kg should be added to 28 kg of Type B tea at Rs.30 a kg so that the cost of the two tea variety mixture be worth Rs. 26.8 a kg? (In kg)

- (A) 30
(B) 36
(C) 32 (Correct Answer)
(D) 34

Question No.90

A traveller covers a distance of 6360 metres in 24 seconds, find the speed of the traveller. (In kmph)

- (A) 944
(B) 964
(C) 954 (Correct Answer) (Chosen option)
(D) 974

Question No.91

If the length and breadth of the rectangle are increased by 20% and decreased by 25% respectively, find the resultant area.

- (A) 15% decrease
(B) 15% increase
(C) 10% increase
(D) 10% decrease (Correct Answer) (Chosen option)

Question No.92

The average of 5 terms is 75. If the first 4 terms are 45, 55, 115, and 85, what will be the last term?

- (A) 77
(B) 79
(C) 73
(D) 75 (Correct Answer) (Chosen option)

Question No.93

P, Q and R started a business by investing Rs.3726, Rs.4347 and Rs.2484 respectively. Find the share of P, out of the annual profit of Rs.10557. (In Rs.)

- (A) 3726 (Correct Answer)
(B) 3626
(C) 3826
(D) 3526

Question No.94

A bus takes 78 hours to complete a journey. It travels the first 39 hours at a speed of 72 kmph and travels the second 39 hours at a speed of 32 kmph. Find the average speed of the journey. (In kmph)

- (A) 56
(B) 50
(C) 54
(D) 52 (Correct Answer)

Question No.95

A and B can do a work in 264 days, B and C can do it in 88 days, A and C can do it in 66 days. In what time A, B and C together can do the work?(in days)

- (A) 68
(B) 64
(C) 66 (Correct Answer)
(D) 62

Question No.96

X and Y invested in a business. They earned some profit which they divided in the ratio of 3:4. If X invested Rs.45,000, find the amount invested by Y. (In Rs.)

- (A) 60000 (Correct Answer) (Chosen option)
(B) 64000
(C) 63000
(D) 62000

Question No.97

Solve:

$$(1 \div 12) - (1 \div 13) = ?$$

- (A) 1/154
(B) 1/155
(C) 1/156 (Correct Answer) (Chosen option)
(D) 1/153

Question No.98

A person incurs a loss of 15% by selling a watch for Rs.2805. At what price should the watch be sold to earn 15% profit? (In Rs.)

- (A) 3595

- (B) 3695
 - (C) 3895
 - (D) **3795 (Correct Answer)** (Chosen option)
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Question No.99

Find the Principal (Rs) when simple interest = Rs.4050, rate = 6% p.a. and time = 5 years.

- (A) **13500 (Correct Answer)** (Chosen option)
 - (B) 12500
 - (C) 11500
 - (D) 14500
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Question No.100

A and B can do a piece of work in 10 days, while C and D can do the same work in 90 days. In how many days will A, B, C and D do it together?

- (A) 7
 - (B) 5
 - (C) 11
 - (D) **9 (Correct Answer)** (Chosen option)
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