

## Section : - Quantitative Aptitude

Directions : -

Study the following table to answer the given questions.

**CENTRE AND POST-WISE NUMBER OF CANDIDATES**

Centre ↓	Officer	Clerk	Field Officer	Supervisor	Specialist Officer
Bangluroo	2000	5000	50	2050	750
Delhi	15000	17000	160	11000	750
Mumbai	17000	19500	70	7000	900
Hyderabad	3500	20000	300	9000	1150
Kolkata	14900	17650	70	1300	1200
Lucknow	11360	15300	30	1500	650
Chennai	9000	11000	95	1650	500

Question : -1

What is the difference between total number of officers and clerks

- 28680
- 29680
- 32690
- 34180
- 33690

Correct Answer : 32690

Answer Explanation -

Total number of officers =  $2000 + 15000 + 17000 + 3500 + 14900 + 11360 + 9000 = 72760$

Total number of clerk =  $5000 + 17000 + 19500 + 20000 + 17650 + 15300 + 11000 = 105450$

Their difference =  $105450 - 72760 = 32690$

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Chennai	9000	11000	95	1650	500

Question : -2

Which centre has the higher number of candidates

- Delhi
- Hyderabad
- kolkata
- mumbai
- Can't be determined in above options

Correct Answer : mumbai

Answer Explanation -

Number of candidates :

Delhi ?  $15000 + 17000 + 160 + 11000 + 750 = 43910$

Hyderabad ?  $3500 + 20000 + 300 + 9000 + 1150 = 33950$

kolkata ?  $14900 + 17650 + 70 + 1300 + 1200 = 35120$

Mumbai ?  $17000 + 19500 + 70 + 7000 + 900 = 44470$

Hence, Mumbai has the highest number of candidates.

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### Section : - Quantitative Aptitude

Directions : -

Study the table carefully to answer the questions that follow:

## PERCENTAGE OF MARKS OBTAINED BY SIX STUDENTS IN SIX DIFFERENT SUBJECTS

Subject → Student ↓	Science (Out of 150)	English (Out of 100)	Hindi (Out of 50)	Maths (Out of 150)	Social Studies (Out of 125)	Maithili (Out of 50)
Ravi	85	67	84	70	70	78
Riya	80	53	86	60	80	78
Amit	90	51	88	65	50	66
Kirti	65	78	90	85	70	68
Prasad	70	82	86	80	60	72
Tanya	60	84	80	65	50	76

Question : -3

What is the Riya's overall percentage of marks in all subjects together

- 68.3
- 71.2
- 72.8
- 75.6
- 74.9

Correct Answer : 72.8

Answer Explanation -

Riya's overall percentage of Marks in all subject =  $(80 + 53 + 86 + 60 + 80 + 78)/6 = 437/6 \approx 72.8\%$

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Question : -4

What are the total marks obtained by Tanya in all the subject together

- 402
- 408
- 412
- 418
- 416

Correct Answer : 412

Answer Explanation -

Total marks obtained by Tanya in all the subjects

$$= 150 \times 60\% + 84 + 50 \times 80\% + 150 \times 65\% + 125 \times 50 + 50 \times 76\%$$

Total marks obtained by Tanya in all the subjects

$$= 150 \times 60 / 100 + 84 + 50 \times 80 / 100 + 150 \times 65 / 100 + 125 \times 50 / 100 + 50 \times 76 / 100$$

$$= 90 + 84 + 40 + 97.5 + 62.5 + 38 = 412$$

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Question : -5

Which student has scored the highest marks in all subjects together

- Amit
- kirti
- prasad
- ravi
- tanya

Correct Answer : kirti

Answer Explanation -

It is clear from the table that Kirti has scored the highest marks in all the subjects.

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Question : -6

If to pass in the examination the minimum marks required in Maths are 95 and in Social studies are 85, how many students will pass

- One
- two
- three
- four
- None of the above

Correct Answer : None of the above

Answer Explanation -

Pass percentage in **Maths** = Minimum passing marks in Maths x 100/total maths marks for math

Pass percentage in Maths =  $95 \times 100/150 = 63.3\%$

Pass percentage in **Social studies** = Minimum passing marks in Social studies x 100/total maths marks for Social studies

Pass percentage in Social studies =  $85 \times 100/125 = 68\%$

It is clear from the table that Ravi and Kirti will pass in the examination.

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Question : -7

What are the average marks obtained by all students together in Hindi

- 41.54
- 42.83
- 43.83
- 44.62
- 41.83

Correct Answer : 42.83

Answer Explanation -

As per given table graph,

The total marks obtained by all students in Hindi = Marks obtained by ravi in Hindi + Marks obtained by riya in Hindi + Marks obtained by amit in Hindi + Marks obtained by kirti in Hindi + Marks obtained by prasad in Hindi + Marks obtained by tanya in Hindi

The total marks obtained by all students in Hindi =  $50 \times (84 + 86 + 88 + 90 + 86 + 80) / 100 = 50 \times 514 / 100 = 257$

The average marks obtained by all students in Hindi =  $257 / 6 = 42.83$

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## Section : - Quantitative Aptitude

Directions : -

**Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.**

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

Question : -8

The total amount of bonus paid by the company during the given period is approximately what percent of the total amount of salary paid during this period?

- 0.1
- 1
- 1.1
- 1.2
- 2.2

Correct Answer : 1

Answer Explanation -

$$\begin{aligned}\text{Required percentage} &= \left[ \frac{(3.00 + 2.52 + 3.84 + 3.68 + 3.96)}{(288 + 342 + 324 + 336 + 420)} \times 100 \right] \% \\ &= \left[ \frac{17}{1710} \times 100 \right] \% \\ &\approx 1\%\end{aligned}$$

**Section : - Quantitative Aptitude**

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Question : -9

Study the following table and answer the questions based on it.

What is the average amount of interest per year which the company had to pay during this period?

- Rs. 32.43 lakhs
- Rs. 33.72 lakhs
- Rs. 34.18 lakhs
- Rs. 36.66 lakhs
- None of the above

Correct Answer : Rs. 36.66 lakhs

Answer Explanation -

Average amount of interest paid by the Company during the given period

$$= \text{Rs.} \left[ \frac{23.4 + 32.5 + 41.6 + 36.4 + 49.4}{5} \right] \text{ lakhs}$$

$$= \text{Rs.} \left[ \frac{183.3}{5} \right] \text{ lakhs}$$

$$= \text{Rs. } 36.66 \text{ lakhs.}$$

**Section : - Quantitative Aptitude**

Directions : -

Question : -10

Look at the following series and find the missing number

1676, 1354, 1064 , ? , 580 , 386

- 942
- 888
- 956



- 806
  - None of the above
- Correct Answer : 806

Answer Explanation -

The series is

$$(41)^2 - 5 = 1676,$$

$$(37)^2 - 15 = 1354,$$

$$(33)^2 - 25 = 1064,$$

$$(29)^2 - 35 = \mathbf{806},$$

$$(25)^2 - 45 = 580,$$

$$(21)^2 - 55 = 386,$$

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### Section : - Quantitative Aptitude

Directions : -

Question : -11

Look at the following series and find the missing numbers

14, ? , 56, 272, 1568, 9344

- 40
  - 24
  - 25
  - 20
  - None of the above
- Correct Answer : 20

Answer Explanation -

This series is

$$14 + 6 = \mathbf{20},$$

$$20 + 62 = 56,$$

$$56 + 63 = 272,$$

$$272 + 64 = 1568,$$

$$1568 + 65 = 9344,$$

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### Section : - Quantitative Aptitude

Directions : -

Question : -12

Look at the following series and find the missing value

10 , 13 , ? , 95 , 386, 1937

- 30

- 18
- 49
- 63
- None of the above

Correct Answer : 30

Answer Explanation -

This Series is based on

$$10 * 1 + 3 = 13$$

$$13 * 2 + 4 = 30,$$

$$30 * 3 + 5 = 95,$$

$$95 * 4 + 6 = 386,$$

$$386 * 5 + 7 = 1937$$

### Section : - Quantitative Aptitude

Directions : -

Question : -13

Look at the following series and find the missing number

2800 , 1408 , 712 , ? , 190 , 103

- 284
- 245
- 364
- 259
- None of the above

Correct Answer : 364

Answer Explanation -

This series is  $\div 2 + 8$  repeated

### Section : - Quantitative Aptitude

Directions : -

Question : -14

Look at the following series and find the missing number

150 , 275 , 339 , 366 , 374 , ?

- 490
- 395
- 431
- 375
- None of the above

Correct Answer : 375

Answer Explanation -

The series is  $+5^3, +4^3, +3^3, +2^3, +1^3$

### Section : - Quantitative Aptitude

Directions : -

Question : -15

$$2508 \div 15.02 + ? \times 11 = 200$$

- 13
- 8
- 4
- 3
- 5

Correct Answer : 3

Answer Explanation -

$$2508 \div 15.02 \div ? \times 11 = 200$$

$$? \ 2508/15 + ? \times 11 = 200$$

$$? \ ? = (200 - 167.2) \times 1/11 = 2.98 \ ? \ 3$$

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### Section : - Quantitative Aptitude

Directions : -

Question : -16

$$2375.85 \div 18.01 - 4.525 \times 8.05 = ?$$

- 86
- 96
- 92
- 84
- 88

Correct Answer : 96

Answer Explanation -

$$? = 2375.85 \div 18.01 - 4.525 \times 8.05$$

$$= 2376 \div 18 - 4.5 \times 8 = 132 - 36 = 96$$

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### Section : - Quantitative Aptitude

Directions : -

Question : -17

$$198.995 \times 12.005 + 16.25 \times 6.95 = ?$$

- 2620
- 2600
- 2590
- 2580
- 2500

Correct Answer : 2500

Answer Explanation -

$$? = 198.995 \times 12.005 + 16.24 \times 6.95$$

$$= 199 \times 12 + 16 \times 7 = 2388 + 112 = 2500$$

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### Section : - Quantitative Aptitude

Directions : -

Question : -18

$$127.007 \times 7.998 + 6.05 \times 4.001 = ?$$

- 1090
- 1200
- 1240
- 1140
- 1040

Correct Answer : 1040

Answer Explanation -

$$\begin{aligned} ? &= 127.007 \times 7.998 + 6.05 \times 4.001 \\ &= 127 \times 8 + 6 \times 4 = 1016 + 24 = 1040 \end{aligned}$$

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### Section : - Quantitative Aptitude

Directions : -

Question : -19

$$17.995 \times 16.005 + 15.999 \times 15.001 = ?$$

- 518
- 528
- 578
- 558
- 548

Correct Answer : 528

Answer Explanation -

$$\begin{aligned} ? &= 17.995 \times 16.005 + 15.999 \times 15.001 \\ &= 18 \times 16 + 16 \times 15 = 16 \times (18 + 15) \\ &= 16 \times 33 = 528 \end{aligned}$$

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### Section : - Quantitative Aptitude

Directions : -

Question : -20

$$198.001 \times 25 + 112.05 \times 24.998 = ?$$

- 7570
- 7500
- 7520
- 7550
- 7750

Correct Answer : 7750

Answer Explanation -

$$\begin{aligned} ? &= 198.001 \times 25 + 112.05 \times 24.998 \\ &= 198 \times 25 + 112 \times 25 \\ &= 25(198 + 112) \\ &= 25 \times 310 = 7750 \end{aligned}$$

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### Section : - Quantitative Aptitude

Directions : -

Question : -21

$(21 + 99) \times (30 - 19.02) = ?$

- 20000
- 40000
- 60000
- 70000
- None of the above

Correct Answer : None of the above

Answer Explanation -

$(21 + 99) \times (30 - 19.02)$

?  $(21 + 99) \times (30 - 19)$

?  $120 \times 11 = 1320$

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### Section : - Quantitative Aptitude

Directions : -

Question : -22

$21 + 3.7 \times 2.9 = ?$

- 36
- 32
- 38
- 42
- 49

Correct Answer : 32

Answer Explanation -

$21 + 3.7 \times 2.9 = ?$

? ?  $21 + 4 \times 3$  ?  $21 + 12$  ? 33 ? 32

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### Section : - Quantitative Aptitude

Directions : -

Question : -23

$3739 + 164 \times 27 = ?$

- 105400
- 4200
- 8200
- 4500
- 4520

Correct Answer : 8200

Answer Explanation -

$3739 + 164 \times 27 = ?$

? =  $3739 + 4428 = 8167$  ? 8200

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### Section : - Quantitative Aptitude

Directions : -

Question : -24

$26.823 \times 27.923 \times 4.5001 = ?$

- 3500
- 3600
- 3700
- 3300
- 3400

Correct Answer : 3400

Answer Explanation -

$26.823 \times 27.923 \times 4.5001$

$? \times 27 \times 28 \times 4.5000 = 756 \times 4.5000 = 3402 ? 3400$

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### Section : - Quantitative Aptitude

Directions : -

Question : -25

$14.995 \times 8.001 \times 20.991 = ?$

- 1950
- 2520
- 2590
- 2620
- 2720

Correct Answer : 2520

Answer Explanation -

$? = 14.995 \times 8.001 \times 20.991$

$? \times 15 \times 8 \times 21 = 2520$

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### Section : - Quantitative Aptitude

Directions : -

Question : -26

$36.98276421 \times 21.00002 = ?$

- 775
- 785
- 790
- 800
- 750

Correct Answer : 775

Answer Explanation -

$36.98276421 \times 21.00002$

Using nearest value in whole number for 36.9827421 is 37 and 21.0002 is 21

$? \times 37 \times 21 = 777 ? 775$

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### Section : - Quantitative Aptitude

Directions : -

Question : -27

$$23/5 \times 15/26 \times 283.75 = ?$$

- 440
- 435
- 410
- 425
- 415

Correct Answer : 425

Answer Explanation -

$$? = 23/5 \times 15/26 \times 283.75$$

$$? 13/5 \times 15/16 \times 284 = 426 ? 425$$

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### Section : - Quantitative Aptitude

Directions : -

Question : -28

$$157/8 \times 231/5 + 34/5 \times 51/8 = ?$$

- 360
- 365
- 370
- 375
- 385

Correct Answer : 385

Answer Explanation -

$$? = 127/8 \times 116/5 + 19/5 \times 41/8$$

$$= 14732/40 + 779/40 = 15511/40 = 387.7 ? 385$$

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### Section : - Quantitative Aptitude

Directions : -

Question : -29

$$(2/3) \times (6/8) \times (2/3) \times (3/4) = ?$$

- 0.25
- 0.5
- 0.75
- 1
- 11.5

Correct Answer : 0.25

Answer Explanation -

$$(2/3) \times (6/8) \times (2/3) \times (3/4) = 1/4 = 0.25$$

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### Section : - Quantitative Aptitude

Directions : -

Question : -30

$$503 \times 201 = ?$$

- 101100
- 1000000
- 110000
- 110003
- 1100033

Correct Answer : 101100

Answer Explanation -

$$530 \times 201 = 101103 \neq 101100$$


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### Section : - Quantitative Aptitude

Directions : -

Question : -31

$$6885.009 - 419.999 - 94.989 = ?$$

- 6650
- 6470
- 6370
- 6680
- 6200

Correct Answer : 6370

Answer Explanation -

$$? = 6885.009 - 419.999 - 94.989$$

$$= 6885 - 420 - 95 = 6370$$


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### Section : - Quantitative Aptitude

Directions : -

Question : -32

$$840.003 \div 23.999 = ?$$

- 47
- 8
- 35
- 18
- 28

Correct Answer : 35

Answer Explanation -

$$? = 840.003 \div 23.999$$

Here one number is increased and other is decreased to their nearest whole number

$$= 840 \div 24 = 35$$


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### Section : - Quantitative Aptitude

Directions : -

Question : -33

$$16.003 \times 27.998 - 209.010 = ?$$

- 250
- 240



- 290
- 280
- 270

Correct Answer : 240

Answer Explanation -

$$? = 16.003 \times 27.998 - 209.010$$

$$? \times 16 \times 28 - 210 = 448 - 210$$

$$? = 238 \quad ? \quad 240$$

## Section : - Quantitative Aptitude

Directions : -

Question : -34

$$125.009 + 69.999 + 104.989 = ?$$

- 300
- 350
- 200
- 250
- 400

Correct Answer : 300

Answer Explanation -

$$125.009 + 69.999 + 104.989 = ?$$

Lets assume, each value is approximated to nearest whole number

$$? \times ? \times 125 + 70 + 105$$

$$? \times ? \times 300$$