QUANTITATIVE APTITUDE

Q.1. The questions given below contain two statements giving certain data. You have to decide whether the data given in the statements are sufficient for answering the question?

In how many days can Mridul complete a work alone?

I. Mridul and Pintoo together complete that work in 19 days.

II. Rinkoo is twice efficient than Mridul and alone can complete that work in 20 days.

(1) If statement I alone is sufficient but statement II alone is not sufficient.

(2) If statement II alone is sufficient but statement I alone is not sufficient.

(3) If each statement alone (either I or II) is sufficient.

(4) If statement I and II together are not sufficient.

(5) If both statements I and II together are sufficient, but neither statement alone is sufficient.

Q.2. The questions given below contain two statements giving certain data. You have to decide whether the data given in the statements are sufficient for answering the question ?

What was the profit on selling a T.V. for Rs. 52500?

I. On selling each T.V. 25% profit is earned.

II. The cost price of 5 T.V. is equal to the selling price of 4 T.V.

(1) If statement I alone is sufficient but statement II alone is not sufficient.

(2) If statement II alone is sufficient but statement I alone is not sufficient.

(3) If each statement alone (either I or II) is sufficient.

(4) If statement I and II together are not sufficient.

(5) If both statements I and II together are sufficient, but neither statement alone is sufficient.

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Q.3. The questions given below contain two statements giving certain data. You have to decide whether the data given in the statements are sufficient for answering the question ?

What is the speed of boat?

I. The boat takes 4 hours to cover a distance of 16 km. in downstream.

II. The boat takes 8 hours to cover a distance of 16 km. in still water.

(1) If statement I alone is sufficient but statement II alone is not sufficient.

(2) If statement II alone is sufficient but statement I alone is not sufficient.

(3) If each statement alone (either I or II) is sufficient.

(4) If statement I and II together are not sufficient.

(5) If both statements I and II together are sufficient, but neither statement alone is sufficient.

Q.4-7. In the given number series which follows the definite rules then find out the value of (a, b, c and d) in second number series.

9	22	50	110	236
5	a	b	c	d

What value will come in place of d?

(1) 172

(2) 184

(3) 196

(4) 208

(5) None of these

Q.5.

8	29	152	1073	9668
12	a	b	c	d

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What value will come in place of b?

(1) 204

(2) 186

(3) 212

(4) 198

(5) None of these

Q.6. 332 336 171 59 15.75

224 a b c d

What value will come in place of c?

(1) 112

(2) 68

(3) 45

(4) 42.5

(5) None of these

Q.7. 1567 1688 1607 1656 1631

3687 a b c d

What value will come in place of b?

(1) 3566

(2) 3485

(3) 3727

(4) 3737

(5) None of these

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Q.8-12. Read the following table and graph carefully and answer the questions given below.

Number of applications in 4 disciplines in different years.

Year	Art		Commerce		Science		Other	
	Group-I	Group-II	Group-I	Group-II	Group-I	Group-II	Group-I	Group-II
2006	3000	3200	2200	2400	3700	3300	3800	3400
2007	4160	3210	6100	4800	3400	2200	5300	4200
2008	5000	4800	3400	4250	4880	6000	5250	5600
2009	3000	4250	3880	3800	4000	3520	4800	5100
2010	4200	5560	6000	2600	5250	4080	3260	3800
2011	6200	5100	5500	2880	3820	5520	4400	4320

Percentage of selected candidates

Year	Art		Commerce		Science		Other	
	Group-I	Group-II	Group-I	Group-II	Group-I	Group-II	Group-I	Group-II
2006	22	33	27	38	23	48	52	38
2007	35	20	23	45	31	18	43	26
2008	41	36	46	24	35	22	24	41
2009	53	24	35	14	46	25	35	30
2010	26	45	51	34	28	35	55	32
2011	21	22	37	45	45	20	46	45

Q.8. What is the respective ratio of number of selected candidates in group I in Science discipline in 2006 and number of selected candidates in the same group in other discipline in 2009?

(1) 851 : 1680

(2) 38:85

(3) 45:89

(4) 841 : 425

(5) None of these

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Q.9. The number of selected candidates in group II in Science discipline in 2008 is approximately what percent of the number of selected candidates in group I in same discipline in the same year?

(1) 89

(2) 84

(3) 81

(4) 76

(5) 72

Q.10. In 2010, the number of selected candidates in group I in Science discipline is approximately, what percent more than the number of selected candidates in group II in Commerce discipline?

(1) 60

(2) 73

(3) 66

(4) 55

(5) 51

Q.11. What is the average number of selected candidates in group II in Art discipline in all the years together?

(1) 1482

(2) 1258

(3) 1526

(4) 1345

(5) None of these

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Q.12. What is the difference between the number of selected candidates in group I and group II in commerce discipline in 2009?

(1) 822

(2) 940

(3) 1056

(4) 1130

(5) None of these

Q.13. In how many different ways can the letters of the word 'COMPOUND' be arranged so that all the vowels always come together?

(1) 4320

(2) 5040

(3) 10080

(4) 2008

(5) None of these

Q.14. The average age of a class is 12.05 years. The average age of all girls is 12.5 years and average age of all boys is 11.75 years. If total number of boys is 45, what is the total number of girls?

(1) 20

(2) 25

(3) 30

(4) 35

(5) None of these

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Q.15. In what proportion must some tea at Rs. 60 per kg. be mixed with another tea at Rs. 65 per kg. so that the new mixture is sold at Rs. 68.2 per kg. at a profit of 10%?

(1) 2:3

(2) 3:2

(3) 4:3

(4) 5:7

(5) None of these

Q.16. A man, a woman and a boy can do a work in 3 days, 4 days and 12 days respectively. How many boys should help a man and a woman to do the same piece of work in $\frac{1}{4}$ day?

(1) 41

(2) 48

(3) 52

(4) 61

(5) None of these

Q.17. 160 m. and 140 m. long two trains are moving on parallel tracks in opposite direction at the speed of 77 km./hr. and 67 km./hr. respectively. In what time they will cross each other?

(1) 4.5 seconds

(2) 5.5 seconds

(3) 6.5 seconds

(4) 7.5 seconds

(5) None of these

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Q.18. A committee of 5 students is to be chosen from 6 boys and 4 girls. What is the probility that the committee exactly 2 girls?

(1) $\frac{10}{21}$ **(2)** $\frac{5}{24}$

(3) $\frac{12}{21}$ **(4)** $\frac{16}{25}$

(5) None of these

Q.19. The cost of 19 kg. of apple is Rs. 1140, 17 kg. of mango is Rs. 595 and 13 kg. of oranges is Rs. 949. What will be the total cost of 11 kg. of apple, 7 kg. of mango and 9 kg. of orange?

(1) Rs. 1562

(2) Rs. 1530

(3) Rs. 1545

(4) Rs. 1570

(5) None of these

Q.20 Rs. 5625 is distributed among A, B and C in such a way that A gets $\frac{1}{2}$ of B and C together and B gets $\frac{1}{4}$ of A and C together. A's share is how much more than B's share?

(1) Rs. 750 **(2)** Rs. 775

(3) Rs. 1500 **(4)** Rs. 1600

(5) None of these

Q.21. A wheel makes 1000 revolutions in order to cover a distance of 88 km. What is the diameter of the wheel?

(1) 14 meter

(2) 24 meter

(3) 28 meter

(4) 40 meter

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(5) None of these

Q.22. The compound interest on a certain sum of money at the rate of 5 p.c.p.a. for 3 years is Rs. 1324.05. What is the simple interest?

(1) Rs. 1260

(2) Rs. 1560

(3) Rs. 1160

(4) Rs. 1360

(5) None of these

Q.23-24. In each of the following questions, two equations are given. You have to solve them and give answer.

(1) If $x>y$

(2) If $x\geq y$

(3) If $x<y$

(4) If $x\leq y$

(5) If $x=y$ or relationship can not be established

Q.23. (I) $6x^2 + 13x - 15 = 0$

(II) $2y^2 - 7y - 4 = 0$

Q.24. (I) $18x^2 + 43x + 17 = 0$

(II) $6y^2 - 19y = 7$

Q.25. (I) $3x^2 + 5 = 16x$

(II) $7y^2 + 12y + 5 = 0$

Q.26. (I) $21x^2 + 5x - 4 = 0$

(II) $9y^2 + 18y = -8$

Q.27. (I) $x^2 + 3x + 2 = 0$

(II) $2y^2 = 5y$

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Q.28. What **approximate** value will come in place of the question mark (?) in the following questions?

96.996 × 9.669 + 0.96 = ?

(1) 860

(2) 870

(3) 1020

(4) 940

(5) 1100

Q.29. What **approximate** value will come in place of the question mark (?) in the following questions?

$$\frac{3}{5}\times\frac{1125}{1228}\times 7 = ?$$

(1) 7

(2) 12

(3) 9

(4) 4

(5) 15

Q.30. What **approximate** value will come in place of the question mark (?) in the following questions?

$$\left(\sqrt{339}\times 25\right)+30 = ?$$

(1) 12

(2) 15

(3) 24

(4) 21

(5) 9

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Answers

QUANTITATIVE APTITUDE

Q.1. (2) From statement II,

Rinku's 1 day work = $\frac{1}{10}$ part

Mridul's 1 day work = $\frac{1}{20}$ part

So, Mridul will complete the work in 20 days.

Q.2. (3)

Q.3. (2) From statement II,

Speed of boat = $\frac{16}{8}$ = 2 km./hr.

Q.4. (2) ×2+4, ×2+6, ×2+10, ×2+16, ×2+24

Q.5. (4) ×3+5, ×5+7, ×7+9, ×9+11

Q.6. (5) ÷1+4, ÷2+3, ÷3+2, ÷4+1

Q.7. (3) +112, –92, +72, –52

Q.8. (1) Ratio = 851 : 1680

Q.9. (2) Percent = $\frac{1728}{2050}$ ×100

= 84 (approx)

Q.10. (3) Increase percent = $\frac{586}{884}$ ×100

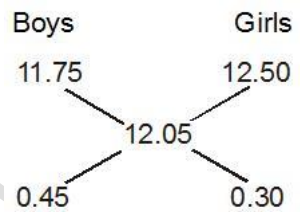
= 66 (approx)

Q.11. (4) Average number = $\frac{8070}{6}$ = 1345

Q.12. (5) Difference = 1358 – 532 = 826

Q.13. (5) Total ways = $\frac{6! \times 3!}{2!}$ = 2160

Q.14. (3)



Ratio = 3:2

Number of girls = $\frac{45}{3} \times 2$ = 30

Q.15. (2)

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Cost price of mixture = $68.2 \times \frac{100}{110}$

= Rs. 62

First type		Second type
60		65
	62	
3		2

Ratio = 3:2

Q.16. (1)

Work done by 1 man in $\frac{1}{4}$ day

$= \frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$ part

Work done by 1 women in $\frac{1}{4}$ day

$= \frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$ part

Total work done by 1 man and 1 woman

$= \frac{1}{12} + \frac{1}{16} = \frac{7}{48}$

Remaining work $= 1 - \frac{7}{48} = \frac{41}{48}$ part

Number of boys $= \frac{41}{48} \times 48 = 41$

Q.17. (4)

Relative speed $= (77 + 67) \times \frac{5}{18}$

$= 144 \times \frac{5}{18} = 40$ m./sec.

Time $= \frac{160 + 140}{40} = 7.5$ seconds

Required probability $= \frac{{}^4C_2 \times {}^6C_3}{{}^{10}C_5}$

$= \frac{6 \times 20}{252} = \frac{10}{21}$

Q.18. (1)

Q.19. (1)

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Total cost

$$= \frac{1140}{19} \times 11 + \frac{595}{17} \times 7 + \frac{949}{13} \times 9$$

= 660+245+657

= Rs. 1562

Q.20. (1)

A+B+C = 5625 _____(I)

$A = \frac{1}{2}(B+C)$ _____(II)

$B = \frac{1}{4}(A+C)$ _____ (III)

From equation (I), (II) and (III),

A = 1875

B = 1125

Difference = 1875 – 1125

= Rs. 750

Q.21. (3)

1000 revolutions = 88000 meter

1 revolution = 88 meter

$$2 \times \frac{22}{7} \times r = 88$$

r = 14 meter

Diameter = 28 meter

Q.22. (1)

$$1324.05 = P\left[\left(\frac{105}{100}\right)^3 - 1\right]$$

$$= P\left(\frac{9261}{8000} - 1\right)$$

P = 8400

$$\text{Simple interest} = \frac{8400 \times 3 \times 5}{100}$$

= Rs. 1260

Q.23. (5)

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(I) $6x^2 + 18x - 5x - 15 = 0$

$6x(x+3) - 5(x+3) = 0$

$x = \frac{5}{6}, -3$

(II) $2y^2 - 8y + y - 4 = 0$

$2y(y - 4) + 1(y - 4) = 0$

$y = 4, -\frac{1}{2}$

Relation can't be established

Q.24. (3)

(I) $18x^2 + 9x + 34x + 17 = 0$

$9x(2x+1) + 17(2x+1) = 0$

$x = -\frac{1}{2}, -\frac{17}{9}$

(II) $6y^2 - 21y + 2y - 7 = 0$

$3y(2y - 7) + 1(2y - 7) = 0$

$y = -\frac{1}{3}, \frac{7}{2}$

Q.25. (1)

(I) $3x^2 - 15x - x + 5 = 0$

$3x(x - 5) - 1(x - 5) = 0$

$x = 5, \frac{1}{3}$

(II) $7y^2 + 7y + 5y + 5 = 0$

$7y(y+1) + 5(y+1) = 0$

$y = -1, -\frac{5}{7}$

Q.26. (1)

Q.27. (3)

Q.28. (4) ? = 960 + 0.96 = 940 (approx)

Q.29. (4)

Q.30. (2) ? = 460 ÷ 30 = 15 (approx)

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