

SOLUTIONS

		21	C	46	A
		22	E	47	D
		23	A	48	A
		24	E	49	D
		25	B	50	C
1	D	26	C	51	c
2	D	27	B	52	A
3	C	28	E	53	C
4	C	29	D	54	C
5	A	30	E	55	D
6	E	31	E	56	B
7	D	32	A	57	B
8	D	33	B	58	D
9	D	34	B	59	D
10	A	35	D	60	A
11	C	36	D	61	D
12	C	37	B	62	B
13	E	38	C	63	C
14	C	39	D	64	E
15	D	40	B	65	A
16	E	41	D	66	C
17	B	42	A	67	D
18	A	43	C	68	C
19	B	44	C	69	B
20	B	45	A	70	B

Solution

Quantitative Aptitude

1. $121 + 81 - 196 + ? = 9$
 $\Rightarrow ? = 9 - 121 - 81 + 196 = 3$
2. $? = \frac{0.5 \times 3.9}{1.3} - 0.5 = 1.5 - 0.5 = 1$
3. $(?)^2 = \frac{15}{31} \times \frac{186}{90} \times \frac{729}{9}$
 $\Rightarrow (?)^2 = 81$
 $\Rightarrow ? = \pm 9$
4. $2300 \times \frac{81}{100} - 596 \times \frac{34}{100} = ?$
 $\Rightarrow ? = 1863 - 202.64 = 1660.36$
5. $? = 3.1 \times 2.6 \times 1.5 = 12.09$
6. $9 \times 92 = ? + 325$
 $\Rightarrow ? = 828 - 325 = 503$
7. $? = 9352 - 2569 + 7153 - 13900 = 36$
8. $? = 1630 \times \frac{23}{100} = 374.9$
9. $? = 73 + \frac{238}{14} - 71$

$$\Rightarrow ? = 73 + 17 - 71 = 19$$

10. $? = \sqrt{576} + \sqrt{841}$
 $\Rightarrow ? = 24 + 29 = 53$
11. $? = 71 + \frac{897 \times 3}{13}$
 $\Rightarrow ? = 71 + 69 \times 3 = 278$
12. $? = \frac{190 \times 38}{4} = 95 \times 19 = 1805$
13. $? = \frac{7}{5} \times \frac{30}{63} \times \frac{558}{3} = 124$
14. $? = 4.3 + 43.34 + 34.43 + 43.43 + 3.4$
 $= 128.9$
15. $\frac{3}{7} \times \frac{497}{249} \times ? = 639$
 $\Rightarrow ? = \frac{639 \times 7 \times 249}{249} = 747$

Ans. (16-18) :

- Share of A = $\frac{7}{20} \times 7740 = 2,709$
- Share of B = $\frac{5}{20} \times 7740 = 1,935$
- Share of C = $\frac{8}{20} \times 7740 = 3,090$
16. $3096 - 1935 = \text{Rs. } 1,161$
 17. $1935 + 2709 = \text{Rs. } 4,644$
 18. A's share = Rs. 2,709
 19. $\text{FRANCE} = 6! = 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 720$
 20. Principle = Rs. 7,250 ; Rate = 6% ;
 Time = 2 years
 $A = P \left(1 + \frac{R}{100} \right)^n = 7250 \left(1 + \frac{6}{100} \right)^2$
 $= \frac{7250 \times 53 \times 53}{50 \times 50} \approx \text{Rs. } 8,146$
 21. Amount = Rs. 6,216
 Principle = Rs. 4,200
 Amount = Principle + S.I.
 S.I. = $6216 - 4200 = \text{Rs. } 2,016$
 S.I. = Rs. 2,016 ; R = ? ; T = 8 years.
 P = Rs. 4,200
 $\text{S.I.} = \frac{P \times R \times T}{100}$
 $\Rightarrow 2016 = \frac{4200 \times R \times 8}{100}$
 $2016 = 336 R$
 Rate = 6 p.c.p.a
 22. Cost of 20 pens and 17 pencils is
 $= \text{Rs. } 418$
 Cost of 60 pens and 51 pencils will be 3 times the cost of

20 pens and 17 pencils.
i.e. Cost of 60 pens and 17 pencils
= $3 \times 418 = \text{Rs. } 1,254$

23. Ratio = $\frac{\text{Students studying in Institute A}}{\text{Students studying in Institute H}}$

$$= \frac{2080}{2360}$$

$$\text{Ratio} = \frac{52}{59} = 52 : 59$$

24. Students studying in course Q in Institute B = 540
Student studying in Institute C = 2700

$$\text{Required percent} = \frac{540}{2700} \times 100 = 20\%$$

25. Total number of Students studying in Course T = 3280

26. Students studying in course P in Institute A = 520
Students studying in Institute A = 2080

$$\text{Required percent} = \frac{520}{2080} \times 100 = 25\%$$

27. Number of students studying in Institute D = 2130
Total number of courses in Institute D = 5

$$\text{Average} = \frac{2130}{5} = 426$$

28. Average = $\frac{\text{Sum of all the scores}}{\text{Total number of scores}}$
 $= \frac{46 + 54 + 62 + 68 + 56 + 29 + 58}{7}$

$$= 53.28 \approx 53$$

29. Average of Circle = 3850

$$\Rightarrow \pi r^2 = 3850$$

$$\Rightarrow \frac{22}{7} \times r^2 = 3850$$

$$\Rightarrow r^2 = \frac{3850 \times 7}{22}$$

$$\Rightarrow r^2 = 1225$$

$$\Rightarrow r = 35 \text{ metre}$$

\therefore Circumference of circle = $2\pi r$

$$= 2 \times \frac{22}{7} \times 35 = 220 \text{ metre}$$

30. $15 \times 16 \times 17 = 4080$

Least number is = 15

31. Perimeter of rectangle = 180

$$2(l + b) = 180$$

$$l + b = 90$$

And $l - b = 8$

Solving (i) and (ii) simultaneously

length = 49 metre

breadth = 41 metre

$$\text{Area of rectangle} = 49 \times 41$$

$$= 2009 \text{ sq. metre}$$

32. (A + B) together complete a particular task in = 6 days

$$(A + B)'s \text{ 1 day work} = \frac{1}{6}$$

A alone do a particular work in 10 days

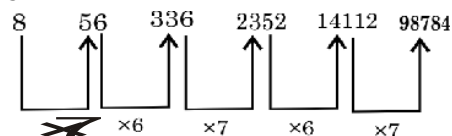
$$= \frac{1}{6} - \frac{1}{10} = \frac{5-3}{30} = \frac{2}{30} = \frac{1}{15}$$

\therefore B alone will do particular work in = 15 days

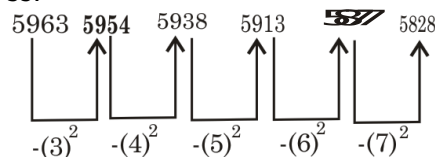
33.



34.



35.



Reasoning

Question No.36-39:

Person	Shirt	Trousers
A	White/Black	Red
B	Red	Black/White
C	Black/White/ Violet	Yellow
D	Green	Indigo
E	Yellow	Blue
F	Black /White/ Violet	White/Black
G	Blue	Cream

36. (d), 37. (b), 38. (c), 39. (d), 40. (b); Change

41. (d); Advocate

42. (a); Extend

43. (c); 11:145 :: 14 : ?

The operation, following is $\Rightarrow 11 \times 13 + 2 = 145$.

Similarly $\Rightarrow 14 \times 16 + 2 = 226$

44. (c); 3:36::5 : ?

The operation following is $\Rightarrow 3 \times 6 = 18$

So that 18 is divided by 3.

By seeing option, The operation will follow

$$\Rightarrow 1 \times 4 \times 5 = 20$$

20 is divided by 5.

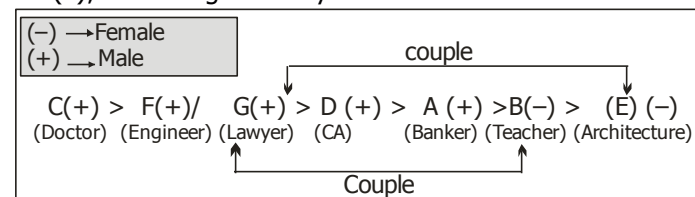
45.(a); 12:5::?:27

The operation following is $5 \times 3 - 3 = 12$

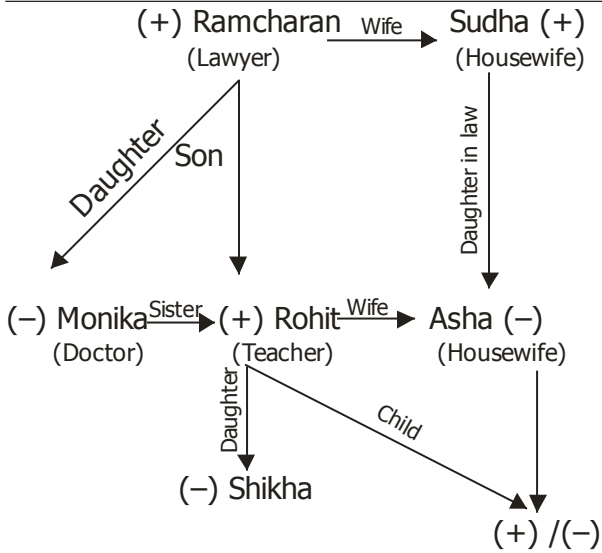
Similarly, $27 \times 3 - 3 = 78$

? = 78

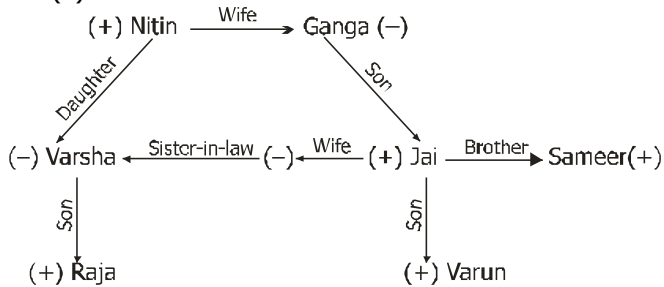
46. (e); According to salary



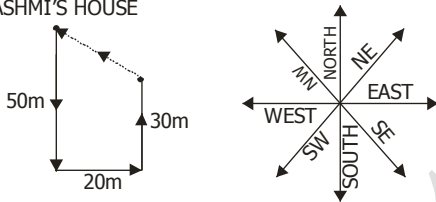
47. (d)



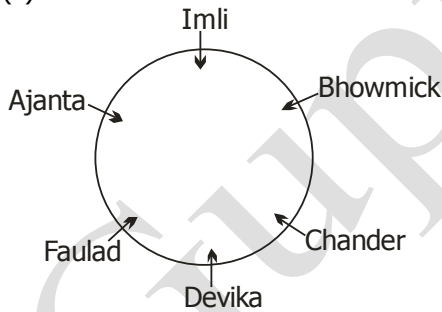
48. (a)



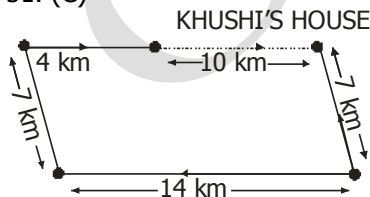
49. (d)
RASHMI'S HOUSE



50. (c)



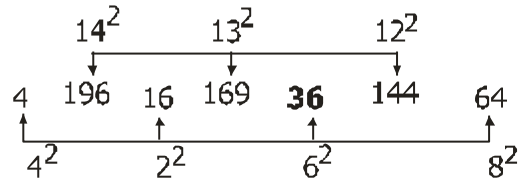
51. (C)



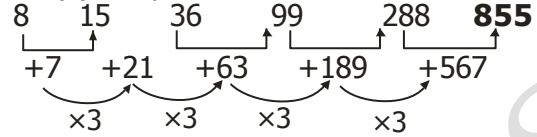
52. (a) Meaningful order of words

Lt. General → Brigadier → Colonel → Major → Captain
(5) (4) (3) (1) (2)

53. (c); The pattern of series is

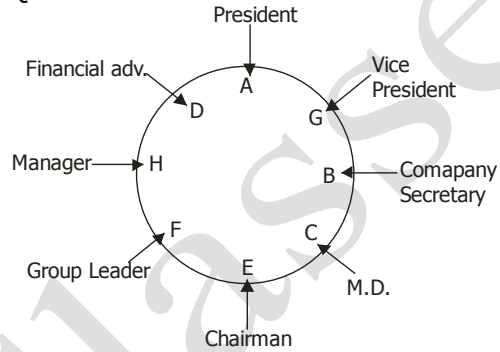


54. (C) The pattern of series



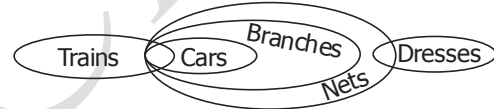
55. (d); 56. (2); 57. (b);

Question No. 58-61:

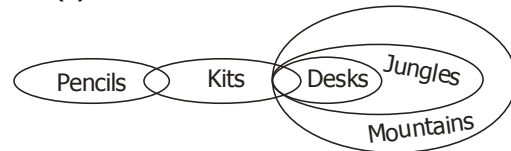


58. (d); 59. (d); 60. (a); 61. (d);

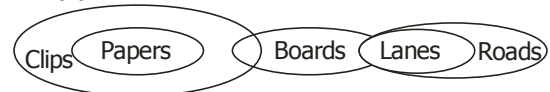
62. (b)



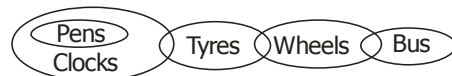
63. (c)



64. (e);



65. (a);



66. (c) column : $6 \times 5 + (8 \times 5) = 43$

Column II: $7 \times 6 + (9 + 6) = 57$

Similarly,

Column III : $7 \times ? + (6 + ?) = 40$

$\Rightarrow 8 \times ? = 34$

$\Rightarrow ? = 4.25$

67. (d); Column I: $\sqrt{25} + \sqrt{49} = 12 \rightarrow (12)^2 = 144$

Column III: $\sqrt{64} + \sqrt{100} = 18 \rightarrow (18)^2 = 324$

Similarly

Column II: $\sqrt{16} + \sqrt{36} = 10 \rightarrow (10)^2 = 100$

68. (c); 69. (b); 70. (b).