

## ANSWER SET - 10

01. (4) 02. (1) 03. (3) 04. (1) 05. (1)  
 06. (3) 07. (5) 08. (2) 09. (1) 10. (3)  
 11. (1) 12. (3) 13. (2) 14. (4) 15. (5)  
 16. (2) 17. (1) 18. (4) 19. (5) 20. (1)  
 21. (4) 22. (5) 23. (1) 24. (5) 25. (1)  
 26. (2) 27. (1) 28. (3) 29. (4) 30. (5)  
 31. (1) 32. (4) 33. (2) 34. (4) 35. (2)  
 36. (2) 37. (3) 38. (2) 39. (3) 40. (5)  
 41. (1) 42. (4) 43. (3) 44. (1) 45. (4)  
 46. (4) 47. (2) 48. (1) 49. (3) 50. (5)  
 51. (4) 52. (5) 53. (1) 54. (4) 55. (3)  
 56. (5) 57. (2) 58. (2) 59. (3) 60. (2)  
 61. (3) 62. (1) 63. (2) 64. (3) 65. (5)  
 66. (1) 67. (2) 68. (4) 69. (3) 70. (5)  
 71. (4) 72. (1) 73. (2) 74. (3) 75. (2)  
 76. (5) 77. (4) 78. (2) 79. (1) 80. (5)  
 81. (4) 82. (3) 83. (4) 84. (2) 85. (1)  
 86. (2) 87. (5) 88. (3) 89. (4) 90. (1)  
 91. (2) 92. (5) 93. (3) 94. (2) 95. (1)  
 96. (2) 97. (4) 98. (1) 99. (3) 100. (5)

## EXPLANATION - 10

1. (4) 2. (1) 3. (3) 4. (1) 5. (1)  
 6. (3) 7. (5) 8. (2) 9. (1) 10. (3)  
 11. (1) 12. (3) 13. (2) 14. (4) 15. (5)  
 16. (2) Replace 'one' with 'a'  
 17. (1) Replace 'is' with 'are'  
 18. (4) Insert 'the' after 'for'  
 19. 5  
 20. (1) Replace 'give up' with 'giving up'

(21-25): D B F E C A

21. (4) 22. (5) 23. (1) 24. (5) 25. (1)  
 26. (2) 27. (1) 28. (3) 29. (4) 30. (5)

31. (1) CP of the article =  $\frac{38 \times 100}{95}$   
 = 40

$\therefore$  Gain percentage =  $\frac{44 - 40}{40} \times 100 = 10\%$

32. (4) Perimeter of the square = circumference of the circle  
 or,  $4a = 2\pi r$

$\therefore a = \frac{1}{4} \times 2 \times \frac{22}{7} \times 42 = 66 \text{ cm}$

33. (2) Percentage change in area

=  $50 - 20 - \frac{50 \times 20}{100}$

$\left[ \text{Formula : } x + y + \frac{xy}{100} \right]$

=  $50 - 20 - 10 = 20\%$  increase

34. (4)  $36 \times d = 45 \times (d - 5)$

$\therefore d = 25$  days

$36 \times 25 = 20 \times d$

$\therefore d = 45$  days

35. (2) The population two years ago was 8000

$\therefore$  Population at present

=  $8000 \left( 1 + \frac{r}{100} \right)^2 = 10000$

or,  $\left( 1 + \frac{r}{100} \right)^2 = \frac{5}{4}$

Two years hence, population

=  $10000 \left( 1 + \frac{r}{100} \right)^2$

=  $10000 \times \frac{5}{4} = 12500$

36. (2) Suppose the total number of students is 100.

Students interested in playing

=  $100 \times \frac{12}{100} = 12$

Students interested in dancing

=  $100 \times \frac{3}{4} = 75$

Students interested in singing

=  $100 \times \frac{10}{100} = 10$

Remaining students =  $100 - (12 + 75 + 10) = 3$

Remaining students = 15 (Given)

Total students =  $\frac{100}{3} \times 15 = 500$

37. (3) The total number of letters in the word 'OPERATE' = 7

And E appears 2 times

Required number of ways

=  $\frac{7!}{2!} = \frac{5040}{2} = 2520$

38. (2) Simple interest

=  $\frac{4540 \times 8 \times 8}{100} = 2905.6$

39. (3) Suppose the ten's digit = x

And unit's digit = x + 5

Then,  $x + 5 = 6x$

if,  $x = 1$

$\therefore$  unit's digit =  $x + 5 = 1 + 5 = 6$

Therefore the required number is 16.

40. (5) Total cost price of TV

=  $12500 + 300 + 800 = 13600$

Selling price to earn a profit of 15%

=  $13600 + 13600 \times \frac{15}{100}$

=  $13600 + 2040 = 15640$

41. (1) Relative speed =  $(60 + 48) \text{ km/}$

hr = 108 km/hr

=  $108 \times \frac{5}{18} = 30 \text{ m/s}$

Distance =  $240 + 270 = 510 \text{ m}$

Time =  $\frac{\text{Distance}}{\text{Speed}} = \frac{510}{30}$

= 17 seconds

42. (4) Let the 1st part be ₹x.

And the 2nd part be ₹(8600 - x)

Then by the given condition,

$\frac{x \times 15 \times 4}{100} = \frac{(8600 - x) \times 20 \times 33}{100}$

$60x = 8600 \times 20 \times 3 - 60x$

or,  $120x = 8600 \times 20 \times 3$

$\therefore x = \frac{8600 \times 20 \times 3}{120} = 4300$

Thus, the amounts in both the parts are equal.

43. (3) Reduction price =  $\frac{130 \times 20}{5.2 \times 100}$

= ₹5

Original price =  $\frac{5 \times 100}{80} = ₹6.25$

44. (1) Students who failed in both the subjects = 15%

Students who passed in either of the subjects

Mathematics or English =  $100 - 15 = 85\%$

$n(A \cup B) = n(A) + n(B) - n(A \cap B)$

$85 = 80 + 75 - n(A \cap B)$

or,  $n(A \cap B) = 70$

ie, the number of students who passed in both the subjects =  $70\% = 350$

$\therefore$  The total number of students

=  $350 \times \frac{100}{70} = 500$

45. (4) Let the capital be x.

Now, A's capital =  $\frac{x}{4}$

$\therefore$  B's capital =  $x - \frac{x}{4} = \frac{3x}{4}$

Therefore ratio of A's capital to B's =  $1 : 3$

$\therefore$  Suppose B uses capital for t months.

Ratio of profit = A : B

=  $1 \times 15 : 3 \times t$

=  $15 : 3 \times t$

=  $5 : t$

or,  $3t = 2t + 10$   
 $\therefore t = 10$  months

$\therefore$  B's share =  $\frac{t}{t+5} = \frac{2}{3}$

46. (4)  $? = (284 + 114 + 324) \div (652 - 548 - 64)$

$\therefore ? = 722 \div 40 = 18.05$

47. (2)  $(255 \times 2000) \div 5000 \times 25 = ?$

or,  $102 \times 25 = ?$

$\therefore ? = 2550$

48. (1)  $(7856 + 3214 + 6318) \div ? = 38.64$

or,  $17388 \div ? = 38.64$

$\therefore ? = \frac{17388}{38.64} = 450$

49. (3)  $\frac{12.5 \times 16 + 25}{6.4 \times 5.5 - 10.2} = ?$

or,  $? = \frac{200 + 25}{35.2 - 10.2} = \frac{225}{25} = 9$

50. (5)  $\sqrt[3]{512} + \sqrt[3]{1331} = \sqrt{?}$

or,  $8 + 11 = \sqrt{?}$

or,  $\sqrt{?} = 19$

$\therefore ? = (19)^2 = 361$

51. (4)  $[(12)^2 + (? )^2] \div 125 = 3.2$

or,  $\frac{(12)^2 + (? )^2}{125} = 3.2$

or,  $(12)^2 + (? )^2 = 3.2 \times 125$

or,  $(? )^2 = 400 - 144 = 256$

$\therefore ? = 16$

52. (5)  $(0.64 \times 2.5 \times 3.2) \div 0.8 = ?$

or,  $? = \frac{0.64 \times 2.5 \times 3.2}{0.8} = 6.4$

53. (1)  $\frac{1287}{1645} \times \frac{235}{572} \times \frac{16}{63} = ?$

or,  $\frac{143}{329} \times \frac{47}{143} \times \frac{4}{7} = \frac{4}{49}$

54. (4)  $? = 7^3 + 5^2 + 4^3 \div (16)^2$

$= 343 + 25 + 64 \div 256$

$= 343 + 25 + 0.25 = 368.25$

55. (3)  $? = 75\% \text{ of } 280 - 24\% \text{ of } 45$

or,  $? = \frac{75}{100} \times 280 - \frac{24}{100} \times 45$

or,  $? = 3 \times 70 - 1.2 \times 9$

$= 210 - 10.8 = 199.2$

56. (5) Total candidates passed in state A in 2010 = 780

Total candidates passed in state C in 2013 = 500

$\therefore$  Required percentage =

$\frac{780 - 500}{500} \times 100 = \frac{280}{5} = 56\%$

57. (2)

Percentage of selected candidates in state D in 2010

$= \frac{95}{700} \times 100 = 13.57\%$

Percentage of selected candidates in state D in 2011

$= \frac{84}{540} \times 100 = 15.5\%$

Percentage of selected candidates in state D in 2012

$= \frac{77}{660} \times 100 = 11.6\%$

Percentage of selected candidates in state D in 2013

$= \frac{78}{720} \times 100 = 10.83\%$

Percentage of selected candidates in state D in 2014

$= \frac{64}{640} \times 100 = 10\%$

Percentage of selected candidates in state D in 2015

$= \frac{58}{500} \times 100 = 11.6\%$

58. (2) Total number of students selected in state C

$= 80 + 60 + 66 + 55 + 52 + 60 = 373$

Total number of students selected in state A

$= 80 + 120 + 72 + 96 + 64 + 68 = 500$

$\therefore$  Required percentage =

$\frac{373}{500} \times 100 = 74.6\% = 75\%$

59. (3) Percentage of candidates passed in state A

$= \frac{780}{5600} \times 100 = 13.92\%$

Percentage of candidates passed in state B

$= \frac{480}{7500} \times 100 = 6.4\%$

Percentage of candidates passed in state C

$= \frac{800}{4800} \times 100 = 16.66\%$

Percentage of candidates passed in

state D

$= \frac{700}{7500} \times 100 = 9.33\%$

60. (2) The total number of selected students in state B

$= 75 + 72 + 104 + 112 + 60 + 75 = 498$

$\therefore$  Average =  $\frac{498}{6} = 83$

The total number of selected students in state D

$= 95 + 84 + 77 + 78 + 64 + 58 = 456$

$\therefore$  Average =  $\frac{456}{6} = 76$

$\therefore$  Difference =  $83 - 76 = 7$

61. (3) The series is  $+10^3 - 10, +9^3 - 9, +8^3 - 8, \dots$

62. (1) The series is  $-24^2, -21^2, -18^2, -15^2, \dots$

63. (2) The series is  $2^2 + 4^2, 6^2 + 8^2, 10^2 + 12^2, 14^2 + 16^2, \dots$

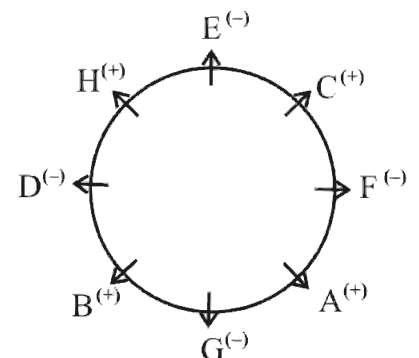
64. (3) The series is  $+8^3, +12^3, +16^3, +20^3, \dots$

65. (5) The series is  $+17^2 - 17, +15^2 - 15, +13^2 - 13, \dots$

(66-70)

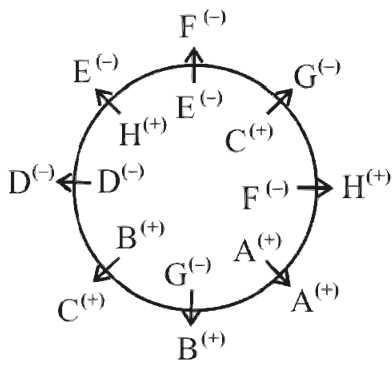
Persons	Days	State
Monika	Tuesday	Karnataka
Ragini	Friday	MP
Pooja	Wednesday	Bihar
Sahil	Saturday	Sikkim
Avinash	Sunday	Punjab
Anupam	Thursday	Maharashtra
Neetu	Monday	UP

66. (1) 67. (2) 68. (4) 69. (3) 70. (5) (71-75)



71. (4) 72. (1)

73. (2)



74. (3) 75. (2)  
(76-80)

M C A Y H U L D B M U K J O S  
G D M E A T R B K J A H T

76. (5) A, U, U, O and A

77. (4) M C Y H L D B M K J S G D M  
T R B K J H T

78. (2)

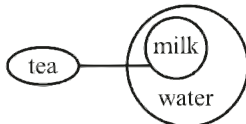
Twentieth from the right — B  
Sixteenth from the left — G  
Four letters C, D, E and F are  
there between them in English  
alphabetical series.

79. (1) 5th to the left of seventeenth  
from the right end =  $(17 + 5) = 22$ nd from right and that is  
L.

80. (5) Total A's and B's in the series  
is 5.

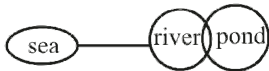
(81-85)

81. (4)



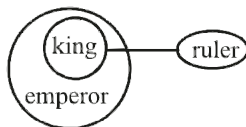
(I) Conclusion I doesn't follow.  
(II) Conclusion II also doesn't fol-  
low.

82. (3)



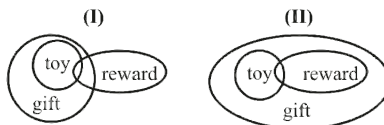
(I) Conclusion I doesn't follow.  
(II) Conclusion II also doesn't fol-  
low.  
But both are complementary pair.

83. (4)



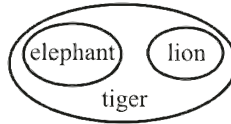
(I) Conclusion I doesn't follow.  
(II) Conclusion II also doesn't fol-  
low.

84. (2)



(I) Conclusion I doesn't follow.  
(II) Conclusion II follows.

85. (1)



(I) Conclusion I follow.  
(II) Conclusion II doesn't follow.

(86-90)

86. (2) Given :

$$B \% C \text{ — } B = C \quad (i)$$

$$C \div D \text{ — } C \geq D \quad (ii)$$

$$D - E \text{ — } D \leq E \quad (iii)$$

Combining (i), (ii) and (iii), we get  
 $B = C \geq D \leq E$

(I)  $E \div B \text{ — } E \geq B$  we can't com-  
pare E and B. So, conclusion  
I is not true.

(II)  $D - B \text{ — } D \leq B$  is true. So,  
conclusion II is true.

87. (5) Given :

$$B + A \text{ — } B < A \quad (i)$$

$$A - C \text{ — } A \leq C \quad (ii)$$

$$D \div C \text{ — } D \geq C \quad (iii)$$

Combining (i), (ii) and (iii), we get  
 $B < A \leq C \leq D$

(I)  $D \times B \text{ — } D > B$  is true. So, con-  
clusion I is true.

(II)  $A - D \text{ — } A \leq D$  is true. So,  
conclusion II is also true.

88. (3) Given :

$$R \times T \text{ — } R > T \quad (i)$$

$$T \div M \text{ — } T \geq M \quad (ii)$$

$$M \% N \text{ — } M = N \quad (iii)$$

Combining (i), (ii) and (iii), we get  
 $R > T \geq M = N$

(I)  $N \% T \text{ — } N = T$  is not true.

(II)  $N + T \text{ — } N < T$  is not true.

89. (4) Given :

$$H \div K \text{ — } H \geq K \quad (i)$$

$$K \% J \text{ — } K = J \quad (ii)$$

$$J + L \text{ — } J < L \quad (iii)$$

Combining (i), (ii) and (iii), we get  
 $H \geq K = J < L$

(I)  $L \div K \text{ — } L \geq K$  is not true. So,  
conclusion I is not true.

(II)  $J \% H \text{ — } J = H$  is not true. So,  
conclusion II is not true.

90. (1) Given :

$$H \% I \text{ — } H = I \quad (i)$$

$$I + J \text{ — } I < J \quad (ii)$$

$$J \times K \text{ — } J > K \quad (iii)$$

Combining (i), (ii) and (iii), we get

$$H = I < J > K$$

(I)  $J \times H \text{ — } J > H$  is true. So, con-  
clusion I is true.

(II)  $K + H \text{ — } K < H$  we can't com-  
pare K and H. So, conclusion II is  
also not true.

91. (2) Meaningful word — MUTE

92. (5)

S I G N A T U R E

93. (3)

$$B > A > C > D, E$$

94. (2)

F R A U D      D E A F

7 @ # 6 5      5 2 # 7

Similarly

R E A D

@ 2 # 5

95. (1)

After arrangement : 13978465

(96-100)

data — pa

for — ka

ruler — ta

households — ma

the — ra

State — gi/sa

India — gi/sa

of — na

are — li

landless — yi

96. (2) 97. (4) 98. (1) 99. (3) 100. (5)