

MOCK-I NUMERICAL ABILITY

1. (d) 2. (b) 3. (a) 4. (c) 5. (e) 6. (e) 7. (a) 8. (e) 9. (d) 10. (d)
 11. (b) 12. (c) 13. (d) 14. (e) 15. (a) 16. (e) 17. (b) 18. (d) 19. (e) 20. (b)
 21. (c) 22. (d) 23. (b) 24. (a) 25. (e) 26. (a) 27. (b) 28. (e) 29. (d) 30. (c)
 31. (d) 32. (a) 33. (b) 34. (b) 35. (e)

REASONING ABILITY

36. (e) 37. (e) 38. (e) 39. (e) 40. (a) 41. (c) 42. (b) 43. (a) 44. (e) 45. (e)
 46. (a) 47. (b) 48. (b) 49. (d) 50. (a) 51. (c) 52. (a) 53. (c) 54. (a) 55. (d)
 56. (a) 57. (d) 58. (b) 59. (c) 60. (d) 61. (b) 62. (e) 63. (a) 64. (c) 65. (c)
 66. (d) 67. (b) 68. (a) 69. (c) 70. (b)

ENGLISH LANGUAGE

71. (b) 72. (a) 73. (c) 74. (b) 75. (b) 76. (b) 77. (d) 78. (d) 79. (a) 80. (e)
 81. (c) 82. (a) 83. (e) 84. (a) 85. (b) 86. (e) 87. (b) 88. (a) 89. (d) 90. (c)
 91. (b) 92. (d) 93. (c) 94. (e) 95. (a) 96. (e) 97. (c) 98. (b) 99. (a) 100. (c)

1. (d)

$$? = \frac{5}{8} \times \frac{4}{9} \times \frac{3}{5} \times 222 = 37$$

2. (b)

Let the number be x.

$$\therefore \frac{56}{100} \times 450 + x = 300$$

$$\text{or, } x = 300 - 252 = 48$$

3. (a)

$$(27)^{1.5} \times (21)^{3.5} = (27)^?$$

$$\text{or } (27)^? = (27)^{1.5+3.5}$$

$$\therefore ? = 5 \left[\because a^x + a^y = a^{(x+y)} \right]$$

4. (c)

Let the number be x.

$$\therefore 27.06 \times 25 - x = 600$$

$$\text{or, } x = 676.5 - 600 = 76.5$$

5. (e)

$$? = \frac{39}{8} \times \frac{30}{13} = \frac{45}{4} = 11\frac{1}{4}$$

6. (e)

$$3 \times ? + 30 = 0$$

$$? = \frac{-30}{3} = -10$$

7. (a)

$$40.83 \times 102 \times 12$$

$$= (40.83 + 0.8166) \times 12$$

$$= 416466 \times 12 = 4997592$$

8. (e)

$$3\frac{1}{3} \div 6\frac{3}{7} \times 1\frac{1}{2} \times \frac{22}{7}$$

$$= \frac{10}{3} \div \frac{45}{7} \times \frac{3}{2} \times \frac{22}{7}$$

$$= \frac{10}{3} \times \frac{7}{45} \times \frac{3}{2} \times \frac{22}{7} = \frac{22}{9} = 2.44$$

9. (d)

$$\sqrt{1.5625} = 1.25$$

10. (d)

$$3978 + 112 \times 2 = ? + 2$$

$$\therefore ? = (3978 + 224) \times 2 = 8404$$

11. (b)

We have $(x + 4) \times 6 = (x - 4) \times 8$
 Where x = speed of the boat in still water.
 Now, $6x + 24 = 8x - 32$
 or $x = 28$
 Hence, the required speed = 28 km/hour

12. (c) We have

$$\pi r^2 = 7 \times 2\pi r$$

$$\therefore r = 14$$

$$\therefore \text{circumference} = 2\pi r = 2 \times \frac{22}{7} \times 14 = 88$$

13. (d)

From the given information we get:
 Work done by (8×12) men = (4×48) women

= (10×24) children

ie, work done by

1 man = 2 women = 2.5 children

Now, the required time to finish the work

$$= \frac{10 \times 24}{10 \times 2.5 + 4 \times \frac{2.5}{2} + 10} = \frac{10 \times 24}{40} = 6 \text{ days}$$

14. (e)

Subhash

Aditya

25000 × 36 : 15000 × 6 + 30000 × 24

= 900000 : 810000

Thus, ratio of the profits of Subhash and Aditya will be 900000 : 810000 ie 10 : 9

∴ Aditya's share = $\frac{247000}{10+9} \times 9 = \text{Rs. } 1,17,000$

15. (a)

We have, difference of the two digits = $\frac{27}{9} = 3$

Sum of the two digits = 11

Now, the two digits are $\frac{11+3}{2}$ and $\frac{11-3}{2}$, ie 7 and 4

Thus, the number is 47 because $47 < 74$.

You can check it : $74 - 47 = 27$

16. (e)

The required speed = $\frac{180 + 180}{18} = 20 \text{ m/sec}$

17. (b)

The required interest

$$= 18,400 \times \frac{112}{100} \times \frac{112}{100} \times \frac{112}{100} - 18400$$

$$= \text{Rs. } 7450.6752$$

18. (d)

The required number of ways = $\frac{7!}{3!} = 840$

19. (e)

Here, area of the garden = $\pi(147^2 - 140^2)$

$$= \pi(147 + 140)(147 - 140)$$

$$= \frac{22}{7} \times 287 \times 7 = 287 \times 22 \text{ sq meters}$$

Now, the required cost = $287 \times 22 \times 21 = \text{Rs. } 1,32,594$

20. (b)

$$\text{Vipul's salary} = 1687.50 \times \frac{100}{75} \times \frac{100}{5} = \text{Rs. } 45,000$$

21. (c) 22. (d) 23. (b) 24. (a) 25. (e)

26. (a) Here,

$$439 \times 2 - 100 = 778$$

$$778 \times 2 - 100 = 1456$$

$$1456 \times 2 - 100 = 2812$$

$$2812 \times 2 - 100 = 5524$$

$$5524 \times 2 - 100 = 10948$$

Hence the wrong number is 5624.

27. (b) Here,

$$156 + 312 = 648$$

$$468 + 312 = 780$$

$$780 + 312 = 1092$$

$$1092 + 312 = 1404$$

$$1404 + 312 = 1716$$

Hence the wrong number is 1094.

28. (e) Here,

$$5040 \times 3 + 5 = 3014$$

$$3014 \times 3 + 5 = 1814.4$$

$$1814.4 \times 3 + 5 = 10886.4$$

$$10886.4 \times 3 + 5 = 65364.4$$

$$65364.4 \times 3 + 5 = 391914.4$$

Hence there is no wrong number in the series given.

29. (d) Here,

$$113 + 17 \times 1 = 130$$

$$130 + 17 \times 2 = 164$$

$$164 + 17 \times 3 = 215$$

$$215 + 17 \times 4 = 283$$

$$283 + 17 \times 5 = 368$$

Hence the wrong number in the series is 293.

30. (c) Here,

$$36 \times 1.5 = 54$$

$$54 \times 2.5 = 135$$

$$135 \times 3.5 = 472.5$$

$$472.5 \times 4.5 = 2126.25$$

$$2126.25 \times 5.5 = 11694.375$$

Hence the wrong number is 472.15

31. (d)

The required average number of defective items from unit II

$$= \frac{12 + 10 + 18 + 15 + 13 + 22}{6} \times 1000 = 15000$$

32. (a)

$$\text{The required ratio} = \frac{76 + 45 + 55 + 57 + 82 + 38}{46 + 36 + 34 + 48 + 58 + 60}$$

$$= \frac{353}{282} = 353:282$$

33. (b)

The required per cent

$$= \frac{(15 + 22 + 32 + 15 + 11)}{(44 + 56 + 38 + 40 + 60)} \times 100$$

$$= \frac{95}{238} \times 100 \approx 40\%$$

34.(b) 35.(e)

36.(e) 37.(e) 38.(e) 39.(e) 40.(a) 41.(c) 42.(b) 43.(b)
44.(e) 45.(e)

46. (a)

Statement : $I < A \geq E = O > V$

Check for I. $\underbrace{E = O > U}$

$E > U$ means $U < E$.

Hence, I holds true.

Check for II. $\underbrace{I < A \geq E = O}$

We can't compare I and O.

Hence II does not hold true.

47. (b)

Statements : $B \leq Q \dots$ (i)

$M > Q \dots$ (ii)

$K = A \dots$ (iii)

$A < B \dots$ (iv)

Combining all the statements, we have

$K = A < B \leq Q < M$

Check for I. $K = \underbrace{K = A < B \leq Q} < M$

$K < Q$

Hence I does not hold true.

Check for II. $\underbrace{K = A < B \leq Q < M}$

$K < M$

Hence II holds true.

48. (b)

Statements : $R = U > C \dots$ (i)

$M > Q \dots$ (ii)

$Y > R \dots$ (iii)

$P \geq D > C \dots$ (iv)

Check for I. Combing (i) and (iv), we have

$R = U > \underbrace{C < D \leq P}$
 $\underbrace{C < P}$

Hence, conclusion I does not hold true.

Check for II. From (i) and (iii), we have

$\underbrace{Y > R = U > C}$
 $\underbrace{Y > C \text{ means } C < Y}$

Hence, conclusion II holds true.

49. (d)

Statements : $E \leq G = I \dots$ (i)

$I < H > J \dots$ (ii)

$J \leq O = P \dots$ (iii)

Check for I.

Combining all these statements, we have

$\underbrace{E \leq G = I < H < J \leq O = P}$
We can't compare E and P.

Hence conclusion I does not hold true.

Check for II. From statement (i), we have

$\underbrace{E \leq G = I}$
 $E \leq I$

Hence, conclusion II does not hold true.

50. (a)

Statement: $Q \geq W > F = U < T \leq I$

Check for I. $Q \geq W > \underbrace{F = U < T \leq I}$
 $\underbrace{F < I \text{ means } I > F}$

Hence, conclusion I holds true.

Check for II. $Q \geq W > \underbrace{F = U < T \leq I}$
 $\underbrace{F < I}$

Hence, conclusion II does not hold true.

51.(c) 52.(a) 53.(c) 54.(a) 55.(d)

56. (a) From the given information we can draw the table in the following way.

57. (d) O and M

58. (b) N and Q

59. (c) O

60. (d)

61. (b)

62. (e)

There is only one such pair.

63. (a)

N E I G H B O U R

↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

1 4 4 4 5 6 4 4 9

Hence, sum = $(1 + 4 + 4 + 4 + 5 + 6 + 4 + 4 + 9) = 41$

64. (c) According to the information, P travels towards east and W travels towards north. Now, T travels towards right of P, thus T travels towards south and H travels towards north because H and T travel in opposite directions. hence, option (3) is definitely false.

65.(c) 66.(d) 67.(b) 68.(a) 69.(c) 70.(a)