

A Premier Institute For SSC/Bank/MCA/MBA/CDS/NDA Entrance

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

2. (b)
 Let the number be x.

$$\frac{56}{100} \quad 450 \quad x \quad 300$$
 or, x 300 252 48

3. (a)
 $27^{1.5} \quad 21^{3.5} \quad 27^?$
 or $27^? \quad 27^{1.5 \cdot 3.5}$
 $? \cdot 5 \quad a^x \quad a^y \quad a^{(x \cdot y)}$

4. (c)
 Let the number be x.
 $27.06 \quad 25 \quad x \quad 600$
 or, x 676.5 600 76.5

5. (e)
 $? \frac{39}{8} \frac{30}{13} \frac{45}{4} 11 \frac{1}{4}$

6. (e)
 $3 \quad ? \quad 30 \quad 0$
 $? \quad \frac{30}{3} \quad 10$

7. (a)
 40.83 102 1.2
 (40.83 0.8166) 1.2

416466 1.2 49.97592

8. (e)
 $3 \frac{1}{3} \quad 6 \frac{3}{7} \quad 1 \frac{1}{2} \quad \frac{22}{7}$
 $\frac{10}{3} \quad \frac{45}{7} \quad \frac{3}{2} \quad \frac{22}{7}$
 $\frac{10}{3} \quad \frac{7}{45} \quad \frac{2}{3} \quad \frac{22}{7} \quad \frac{22}{9} \quad 2.44$

9. (d)
 $\sqrt{1.5625} \quad 1.25$

10. (d)
 3978 112 2 ? 2
 $? = (3978 \quad 224) \quad 2 \quad 8404$

11. (b)
 We have $(x - 4) \cdot 6 = (x - 4) \cdot 8$
 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
 $r^2 \quad 7 \quad 2 \quad r$
 $r \quad 14$
 circumference = $2 \cdot r = 2 \cdot \frac{22}{7} = 14 \frac{88}{7}$

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

$$\frac{10 \ 24}{10 \ 2.5 \ 4 \ 2.5/2 \ 10} \quad \frac{10 \ 24}{40} \quad 6 \text{ days}$$

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
 $18,400 \times \frac{112}{100} \times \frac{112}{100} \times \frac{112}{100} = 18400$
 = Rs. 7450.6752

18. (d)

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

19. (e)

Here, area of the garden = $147^2 - 140^2$
 $\frac{(147 - 140)(147 + 140)}{7} = \frac{7 \times 287}{7} = 287 \text{ sq meters}$
 Now, the required cost $287 \times 22 = \text{Rs. } 1,32,594$

20. (b)

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 2 100 778
 778 2 100 1456
 1456 2 100 2812

2812 2 100 5524
 5524 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 3 5 3014
 3014 3 5 1814.4
 1814.4 3 5 108864
 108864 3 5 65364
 653.184 3 5 3919104

Hence there is no wrong number in the series given.

29. (d) Here,

113 17 1 130
 130 17 2 164
 164 17 3 215
 215 17 4 283
 283 17 5 368

Hence the wrong number in the series is 293.

30. (c) Here,

36 1.5 54
 54 2.5 135
 135 3.5 472.5
 472.5 4.5 2126.25
 2126.25 5.5 11694.375

Hence the wrong number is 47215

31. (d)

The required average number of defective items from unit II

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

32. (a)

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
 $\frac{(15 \ 22 \ 32 \ 15 \ 11)}{(44 \ 56 \ 38 \ 40 \ 60)} \times 100$
 $\frac{95}{238} = 100 \ 40\%$

34.(b) 35.(e)

■ SOLUTION REASONING

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

46. (a)

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

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

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

Hence, I holds true.

Check for II. $\underbrace{I \quad A \quad E \quad O}$

We can't compare I and O.

Hence II does not hold true.

47. (b)

Statements : $B > Q$... (i)

$M > Q$ (ii)

$K = A$ (iii)

$A < B$ (iv)

Combining all the statements, we have

$K = A < B > Q < M$

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

$K < Q$

Hence I does not hold true.

Check for II. $\underbrace{K \quad A \quad B \quad Q \quad M}$

$K < M$

Hence II holds true.

48. (b)

Statements : $R = U > C$... (i)

$M > Q$... (ii)

$Y > R$... (iii)

$P > D > C$... (iv)

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

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

Hence, conclusion I does not hold true.

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

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

Hence, conclusion II holds true.

49. (d)

Statements : $E > G > I$... (i)

$I > H > J$... (ii)

$J > O > P$... (iii)

Check for I.

Combining all these statements, we have

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

Hence conclusion I does not hold true.

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

$\underbrace{E \quad G \quad I}$
 $E > I$

Hence, conclusion II does not hold true.

50. (a)

Statement: $Q > W > F > U > T > I$

Check for I. $Q > W > \underbrace{F \quad U \quad T \quad I}$
 $F > I$ means $I < F$

Hence, conclusion I holds true.

Check for II. $Q > W > \underbrace{F \quad U \quad T \quad I}$
 $F > I$

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)