NUMERICAL ABILITY

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

REASONING ABILITY

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

ENGLISH LANGUAGE

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

1. (e) 8.88 88.8 88 69391.872

2. (c)

? $1\frac{4}{7}$ $1\frac{3}{5}$ $1\frac{1}{3}$ $1\frac{4}{7}$ $1\frac{3}{5}$ $1\frac{1}{3}$

$3\ \frac{60\ 63\ 35}{105}$ $3\ \frac{158}{105}$ $4\frac{53}{105}$

3. (a)

$\frac{9\ 2\ 27\ 9}{18\ 7.5\ 5\ 4}$ $\frac{13.5}{3}$ 4.5

4. (d)

?% of 280 18% of 550 143.8

or, ?% of 280 143.8 18% of 550

or,? $\frac{(143.8\ 18\%\ \text{of}\ 550)100}{280}$

$\frac{(143.8\ 99}{280}$ 100 16

5. (b)

$\sqrt{\sqrt{2500}\ \sqrt{961}}$ $\sqrt{50}$ 31 $\sqrt{81}$ 9

Now, $(?)^2$ 9

? 3

6. (e)

$\sqrt{?}$ 75

Squaring on both the sides, we get

? 75 75 5625

7. (d)

$\frac{21}{8}$ $\frac{7}{72}$ $\frac{1}{171}$?

or, ? $\frac{21}{8}$ $\frac{72}{7}$ $\frac{1}{71}$ $\frac{3}{19}$

8. (c)

? $4\frac{1}{2}$ $6\frac{2}{3}$ $5\frac{1}{3}$

(4 6 5) $\frac{3\ 4\ 2}{6}$ 15 $\frac{9}{6}$ $16\frac{1}{2}$

9. (d)

? 792.02 101.32 306.76 586.58

10. (a)

300% of 150 ? of 600

or, ? of 600 = 45000 or, ? = 75

11. (a)

Let the two-digit no. be $10x$ y.

Then, $(10x\ y)$ $(10y\ x)$ 36

or, $x\ y$ 4

12. (c)

Reqd no. $\frac{2}{5}$ 200 $\frac{3}{5}$ 125 80 75 5

13. (e)

Let the breadth of the rectangular field be 'x' m. Then,

length of the field will be x $\frac{x\ 15}{100}$ $\frac{23x}{20}$

Now, x $\frac{23x}{20}$ 460

or, $23x^2$ 460 20

or, x^2 20 20

or, x 20 m

14. (a)

List price of calculator $\frac{82.50}{30}$ 100 Rs. 275

Deepa bought calculator in 275 0.70 Rs. 192.50

15. (e)

O, A, E	S	F	T	W	R

When the vowels are always together, then treat all the vowels as a single letter then all the letters can be arranged in 6! ways and also all three vowels can be arranged in 3! ways. Hence, required no. of arrangement = 6! × 3! = 4320.

16. (b)

Distance covered in first two hours 70 2 140 km
Distance covered in next two hours 80 2 160 km
Distance covered in first four hours 140 160 300 km
Remaining distance 345 300 45 km
Now, this distance will be covered at the rate of 90 km/hr.

$$\text{time taken} \quad \frac{48}{90} \quad \frac{1}{2} \text{ hour}$$

$$\text{Total time} \quad 4 \quad \frac{1}{2} \quad 4\frac{1}{2} \text{ hours.}$$

17. (c)

Quick Method:

Area of boundary 2(width of boundary) × [length + breadth of rectangular plot + 2 × width of boundary]

$$2 \quad 1 \quad \frac{340}{2} \quad 2 \quad 1 \quad 344\, m^2$$

cost of gardening 10 344 Rs. 3440

18. (d)

Let p and r be the principal amount and rate of interest respectively.

$$\text{Then,} \quad \frac{p \quad r \quad 7}{100} \quad 1750$$

$$\text{or, pr} \quad 25000$$

$$\text{Now, SI} \quad \frac{p \quad (r \quad 2) \quad 7}{100}$$

We have to find the value of

$$\frac{p \quad (r \quad 2) \quad 7}{100} \quad \frac{p \quad r \quad 7}{100} \quad \text{M} \quad 1750$$

M = SI when the rate of interest is 2% more.
When we solve this equation, we find that we have two variables and one equation. Therefore, Can't be determined is the correct answer.

20. (a)

$$\text{Reqd ratio} = 5 \quad \frac{140}{100}:7 \quad \frac{150}{100}:8 \quad \frac{175}{100}$$

$$5 \quad 140:7 \quad 150:8 \quad 175 \quad 2:3:4$$

21. (e)

Here, 24 7^2 73
73 6^2 109;
109 5^2 134
134 4^2 150
150 3^2 159

Hence, the question mark (?) should be replaced 73.

22. (d)

17 0.5 0.5 9
9 1 1 10
10 1.5 1.5 16.5
16.5 2 2 3;
35 2.5 2.5 90

Hence, the question mark (?) should be replaced by 16.5

23. (d)

3 2 14 20
20 3 18 78
78 4 20 332
332 5 20 1680
1680 6 18 10098

Hence, the question mark should be replaced by 10098.

24. (b)

13 2 4 30
30 2 6 66
66 2 8 140
140 2 10 290
290 2 12 592

Hence, the question mark should be replaced by 290.

25. (a)

3 5 15
5 15 75
15 75 1125
75 1125 84375

26. (a)

We have
6,23898 99 ? 60,000

$$? \quad \frac{6,23,898 \quad 99}{60,000} \quad \frac{623898 \quad 623898}{60,000}$$

1030

27. (c)

We have, $\frac{4}{5} \quad \frac{3}{7} \quad \frac{6}{7} \quad \frac{5}{9} \quad \frac{4}{5} \quad \frac{3}{7} \quad \frac{7}{6} \quad \frac{9}{5} \quad \frac{18}{25}$

28. (a)

$(399.98)^2 \quad 400^2 \quad 160000$

29. (c)

We have

$$\sqrt{624.9995} \quad (4.9989)^2 \quad ? \quad \frac{1}{4.9900865}$$

$$\sqrt{625} \quad (5)^2 \quad ? \quad \frac{1}{5}$$

$$? \quad \frac{1}{5}(25 \quad 25) \quad 10$$

30. (c)

989.001 1.00982 76.792
990 1 76.8 1066.8

31. (d)

Required amount = 1,20,000 $\frac{13}{100}$ $\frac{(100 \quad 12)}{100}$

1,20,000 $\frac{13}{100}$ $\frac{88}{100}$ Rs. 13,728

32. (b)

Required cost = 1,20,000 $\frac{(15 \quad 14)}{100}$

1,20,000 $\frac{29}{100}$ Rs. 34, 800

33. (e) Required amount

1,20,000 $\frac{(19 \quad 11)}{11}$ 1,20,000 $\frac{8}{100}$ Rs. 9600

34. (e) Estimated cost of furniture

1,20,000 $\frac{13}{100}$ Rs. 15,600

Estimated cost of miscellaneous items

1,20,000 $\frac{8}{100}$ Rs. 9600

Actual cost of furniture

Rs. 15,600 $\frac{88}{100}$ Rs. 13,728

Actual cost of miscellaneous items = Rs. 10,200

The total expenditure of the family in renovation of house

= Rs. 1,20,000 Rs. [(15,600+9,600) + (13,728+10,200)]

Rs. 1,20,000 Rs. 1,272 Rs. 1,81,728

35. (c)

Required per cent $\frac{10,200}{1,20,000}$ 100 8.5%

36. (b)

All banks are offices conversion Some offices are banks. But, conclusion I does not follow from this. Again, No office is a shop conversion No shop is a office. Hence, conclusion II follows.

37. (c)

Some states are capitals (I) + Some capitals are districts (I) = I + I = No conclusion. But conclusion I and II make a complementary pair (I-E). Thus, either I or II follows.

38. (a)

All coffees are teas (A) + All teas are snacks (A) = A + A = A = all coffees are snacks implication Some coffees are snacks. Hence conclusion I follows. Again, All teas are snacks (A) + All snacks are drinks (A) = A + A = A = All teas are drinks. Hence conclusion II does not follow.

39. (a) 40.(b)

(41-45) :

too much rush ru me be … (i)
traffic hour starts ta no pa … (ii)
it is rush hour do me pa sa … (iii)
traffic is too much ru be do no … (iv)
From (i) and (iii), rush me … (v)
From (i) and (iv), too/much be/ru …(vi)
From (ii) and (iii), hour pa …(vii)
From (ii) and (iv), traffic no … (viii)
From (iii) and (iv), is do … (x)
From (iii), (v), (vii) and (x) it sa … (xi)

41.(e) 42.(b) 43.(d) 44.(a) 45.(c)

(46-50) : The seating arrangement is given below:

V R Q S P X T W

n alphabetical order:

P Q R S T V W X

46.(b) 47.(b)

48.(b) Arranging in alphabetical order:

P Q R S T V W X

Only S retains its position.

49. (b)

50. (d) In all other options the second person of the pair sits third to the right of the first person of the pair.

51. (b)

Number arranged in ascending order

369 434 625 717 922

Exactly middle

Product of the first and the last digit of 625 = 6 5 30

52. (d) After interchanging the first and the last digit of each of the numbers, the numbers thus obtained are 963, 717, 229, 526, and 434 is the second lowest number. Sum of all the digits of 434 = 4 + 3 + 4 = 11

53. (b)

3 6 9 7 1 7 9 2 2

1 2 1 1 1 1 1 2 2

2 8 8 6 0 6 8 4 4

6 2 5 4 3 6

2 +2 1 +2 1 2

8 4 4 6 2 6

Among the newly formed numbers, 288 is the lowest one.

Read difference = 8 2 6

54. (b)

Highest number = 369

Third digit of the lowest number = 9

Now, $\frac{\text{First digit of the highest number}}{\text{Third digit of the lowest number}}$ $\frac{9}{9}$ 1

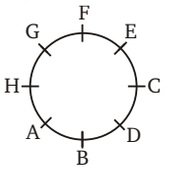
55. (c)

After arranging the digits in descending order within each number, the new numbers thus formed are

963 771 922 652 443

Second highest

(56-60) :



56.(b) 57.(a) 58.(b)

59. (e) In all the other options, only one person sits between the given persons.

60. (b)

61. (d) In all other options, the sequence is not correct.

62. (c) S E C T O R

T S R O E C

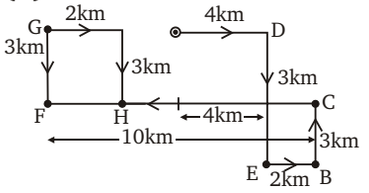
Reverse alphabetical order

S R Q P F B

P is fourth from the left.

(63-64) :

63. (b)



AG = 4 km

G is 4 km towards West from A.

64. (b)

65. (b)

Floor		Person
5	_ _ _	E
4	_ _ _	A
3	_ _ _	B
2	_ _ _	D
1		C

66. (d)

Give statement: A = C T < F … (i)

K P > C … (ii)

Now, from (i), we have A < F So, A > F is not true.

Hence, conclusion I is not true.

Again, combining (i) and (ii), we have

$\underbrace{K \quad P \quad C \quad T}$

We can't compare between k and T.

Hence, conclusion II is not true.

67. (a)

Give statements: R U … (i)

B = M … (ii)

R < M …(iii)

W B … (iv)

Combining all these statements, we have

U $\underbrace{R \quad M \quad B \quad W}$

Hence, conclusion I is true.

Again, combining all these statements, we have

U R $\underbrace{M \quad B \quad W}$

M W

Thus, conclusion II is not definitely true.

68. (b)

Given statement : D > F > L N = O > S V = X

Now, from the statements we have

D F L $\underbrace{N \quad O \quad S \quad V \quad X}$

N V

Hence, conclusion I is not true.

Again, from these statements we have

D F L N $\underbrace{O \quad S \quad V \quad X}$

Hence, conclusion II is true. O X

69. (d)

Give statements : I < E > V …(i)

E < G … (ii)

V < H < J … (iii)

Combining (i) and (ii), we have

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

I G

Hence, conclusion I is not true.

Again combining (i) and (iii), we have

$\underbrace{E \quad V \quad H \quad J}$

Can't compare E and J.

Hence, conclusion II is true.

70. (a)

Given statements: Q Z I N …(i)

Y I …(ii)

Now, from (i), we have

$\underbrace{Q \quad Z \quad I \quad N}$

Thus, Q N

Hence, only conclusion I follows.

But conclusion II does not follow.

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