

NATIONAL TALENT SEARCH EXAMINATION
(STAGE - I) - 2020-2021

1.	(3)	2.	(4)	3.	(1)	4.	(1)	(3)	5.	(3)
6.	(2)	7.	(3)	8.	(4)	9.	(2)	(3)	10.	(3)
11.	(2)	12.	(4)	13.	(3)	14.	(4)	(2)	15.	(1)
16.	(3)	17.	(2)	18.	(4)	19.	(1)	(3)	20.	(2)
21.	(1)	22.	(4)	23.	(3)	24.	(2)	(2)	25.	(1)
26.	(3)	27.	(1)	28.	(2)	29.	(4)	(2)	30.	(4)
31.	(2)	32.	(4)	33.	(3)	34.	(3)	(3)	35.	(4)
36.	(2)	37.	(3)	38.	(1)	39.	(3)		40.	(2)
41.	(4)	42.	(2)	43.	(3)	44.	(Bonus)		45.	(4)
46.	(2)	47.	(4)	48.	(3)	49.	(2)	(3)	50.	(4)
51.	(2)	52.	(3)	53.	(2)	54.	(3)	(4)	55.	(3)
56.	(1)	57.	(2)	58.	(4)	59.			60.	(3)
61.	(1)	62.	(4)	63.	(1)	64.			65.	(2)
66.	(4)	67.	(3)	68.	(3)	69.			70.	(2)
71.	(4)	72.	(1)	73.	(4)	74.			75.	(2)
76.	(1)	77.	(2)	78.	(2)	79.			80.	(4)
81.	(3)	82.	(3)	83.	(4)	84.			85.	(1)
86.	(4)	87.	(2)	88.	(1)	89.			90.	(4)
91.	(1)	92.	(3)	93.	(4)	94.			95.	(1)
96.	(2)	97.	(4)	98.	(3)	99.			100.	(2)

SOLUTIONS

MENTAL ABILITY

1. (3)
Sol. All others are persons.
2. (4)
Sol. others are feelings.
3. (1)
Sol. Octopus.
4. (1)
Sol. Others are squares.
5. (3)
Sol. Others are entertainment devices.
6. (2)
Sol. Others for shoot.
7. (3)
Sol. All except Ellora are famous for temples.
8. (4)
Sol. Both has relations.
9. (3)
Sol. All three has same direction.
10. (3)
Sol. All except 3 have same pattern of figures.
11. (2)
Sol. Triangle is different in figure 2.
12. (4)
Sol. Others are in same pattern.
13. (3)

3 2 6 : 36 4 9

square

Sol.

Square of each digit in reverse.

14. (2)
Sol. Second is the part of first.

15. (1)

Q	N	K	G
- 6	- 6	- 6	

Sol.

K	H	E	A
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16. (3)
- | | | |
|---|---|---|
| B | G | F |
|---|---|---|

Sol.

2 □ 7 □ 6 - 4 = 80

17. (2)

Sol. Both are interrelated.

18. (4)

Sol. 'Cobbler' uses 'leather' to make shoes.

19. (3)

Sol. The closed figure is separated into equal parts, then it is rotated 180° degree and inside figure is rotated 90°.

20. (2)

Sol. Rotate Anticlockwise.

21. (1)

Sol. All figures are moving one place.

22. (4)

Sol. Rotate clockwise 90° then exchange figures.

23. (3)

- 3 - 3

Sol. 22, 3, 19, 9, 16, 27,

24. (4) □3 □3

- 4 - 4 - 4

Sol. a, u, d, q, ?,, j, i

+3 +3 +3

25. (1)

392, 365, 342, 323, 308, ? ,.....

- 27 - 23 - 19 - 15

Sol.

- 4 - 4 - 4

26. (3)

UQN, LHE, CYV, ?,

Sol.

- 9 - 9 - 9

27. (1)

0, 2, 6, 10, 50, 56, ?

Sol.

+2 □3 +4 □5 +6 □7

28. (2)

Sol. C, E, H, L, Q, ?, D, L

+2 +3 +4 +5 +6

29. (2)

Sol. A2B, B3F, C4L, ?,

+4 +6 +8

30. (4)

Sol. 6, 10, 22, 42, 86, 170, ?

$\times 2 - 2$ $\times 2 + 2$ $\times 2 - 2$ $\times 2 + 2$ $\times 2 - 2$ $\times 2 + 2$

31. (2)

Sol. According to pattern one arrow is shifting.

32. (4)

Sol. Joining one line adjacent to triangle clockwise.

33. (3)

Sol. $25 \div 5 \div 2 + 2 = 12$

$$5 \div 2 + 2 = 12$$

$$12 = 12$$

34. (1)

Sol. $18 \div 5 \div 2 = 28$

$$18 + 5 \div 2 = 28$$

$$28 = 28$$

35. (4)

Sol. $30 - 2 \div 6 = 3 \div 6$

$$18 = 18$$

36. (2)

Sol. $5 \div 5 + 29 - 17 = 37$

$$25 + 29 - 17 = 37$$

$$37 = 37$$

37. (3)

Sol. $6 \div 3 + 12 = 28 \div 2$

$$2 \div 2 = 14$$

$$14 = 14$$

38. (1)

Sol. $18 \div 3 \div 2 = 36$

$$18 \div 2 \div 3 = 36$$

$$18 + 83 \div 6$$

$$36 = 36$$

39. (3)

Sol. $23 + 69 - 48 \div 4 = 80$

$$92 - 12 = 80$$

$$80=80$$

40. (2)

Sol. $13 \times 3 + 17 - 29 = 27$
 $39 + 17 - 29 = 27$
 $27 = 27$

41. (4)

Sol. $24 - 17 + 9 \times 3 = 10$
 $7 + 3 = 10$
 $10 = 10$

42. (2)

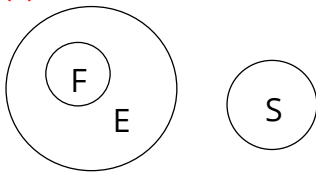
Sol. $14 \times 3 + 7 = 63 - 14$
 $42 + 7 = 49$
 $49 = 49$

43. (3)

Sol. All are interrelated.

44. (2)

Sol.



45. (4)

Sol. All are interrelated.

46. (2)

Sol. All thief are criminal and lawyer is different.

47. (4)

Sol. All are different.

48. (3)

Sol. Tiger and cow both are different animal.

49. (2)

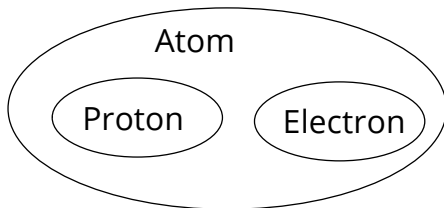
Sol. All parrot are birds and bat is not.

50. (4)

Sol. Silver is mineral and wood is different.

51. (2)

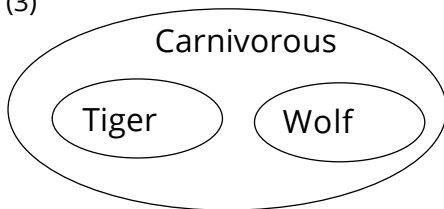
Sol.



Option 2 i.e. 4

52. (3)

Sol.



53. (2)
Sol. ccba/ccba/ccba/ccba

54. (4)
Sol. frame/frame/frame

55. (3)
Sol. mammal/mammal/mammal

56. (1)
Sol. cnbc/cnbc/cnbc/cnbc

57. (2)
Sol. jalsa/jalsa/jalsa

58. (4)

N	I	B	6	4	3	B = 6
B	E	T	1	5	6	E = 5
Sol. T	I	P	2	4	1	A = 7
P	A	N	3	7	2	N = 3

59. (2)
Sol. PAINT
P = 2, I = 4
Paint: 27431
Ans. 2

60. (3)
Sol. NEAT : 3571

61. (1)
Sol. TAPE: 1725

62. (4)
Sol. TAB : 176

63. (1)

M	A	R	C	H	O	R	D	E	R
↓ -2	↓ -2	↓ -2	↓ -2	↓ -2	↓ -2	↓ -2	↓ -2	↓ -2	↓ -2
K	C	P	E	F	M	T	B	G	P

64. (3)
P E N = 66

Sol. ↓ ↓ ↓
16 5 14
(16 □ 5)4 = 66

65. (2)

Sol. $\begin{array}{cccc} E & I & M & R \\ \downarrow +2 & \downarrow +3 & \downarrow +4 & \downarrow +5 \\ C & F & I & M \end{array}$ $\begin{array}{cccc} G & K & O & R \\ \downarrow +2 & \downarrow +3 & \downarrow +4 & \downarrow +5 \\ E & H & K & M \end{array}$

66. (4)

Sol. $\begin{array}{cccc} F & I & S & H \\ \downarrow +3 & \downarrow +4 & \downarrow +5 & \downarrow +6 \\ I & M & X & N \end{array}$ $\begin{array}{cccc} M & A & L & E \\ \downarrow +3 & \downarrow +4 & \downarrow +5 & \downarrow +6 \\ P & E & Q & K \end{array}$

67. (3)

Sol. $\begin{array}{ccc} P & D : & 8 \\ \downarrow & \downarrow & \downarrow \\ 16 \square 4 = \sqrt{64} \end{array}$ $\begin{array}{cc} H & B : \\ \downarrow & \downarrow \\ 8 \square 2 = \sqrt{16} = 4 \end{array}$

68. (3)

Sol. $\begin{array}{ccc} 23 & 26 & 29 \\ \triangle & \triangle & \triangle \\ 169 & 169 & ? \\ 16 \quad 12 & 15 \quad 13 & 14 \quad 17 \end{array}$
 $16 \square 12 - 23 = 169$
 $14 \square 17 - 29 = 209$

69. (3)
Sol. $43 + 26 + 19 = 109$

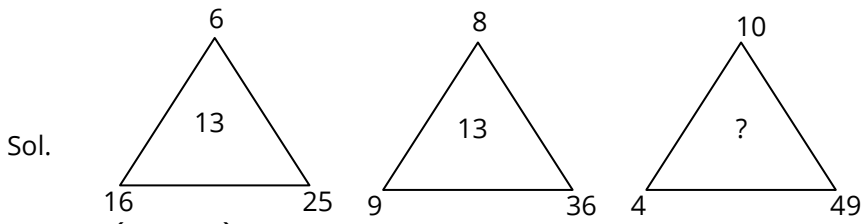
70. (2)

Sol. $\begin{array}{ccc} 16 & 9 & 25 \\ \triangle & \triangle & \triangle \\ 108 & 84 & ? \\ 36 \quad 81 & 49 \quad 64 & 16 \quad 49 \end{array}$
 $\frac{3 \square 8 \square 7}{2} = 84$
 $\frac{5 \square 7 \square 4}{2} = 70$

71. (4)

Sol. $7 - 9 - 43 = 198$
 $3 - 2 - 23 = 159$
 $6 \quad 7$
 $3 \quad 2$

72. (1)

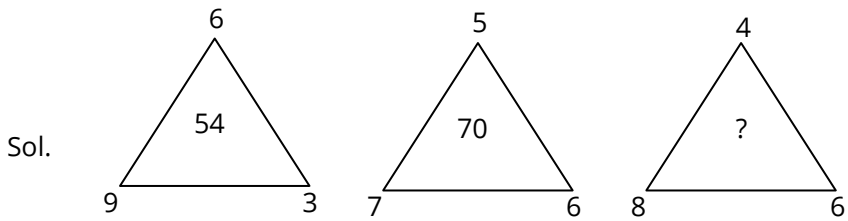


$$\frac{(4 \square 5 + 6)}{2} = 13$$

$$\frac{(3 \square 6 + 8)}{2} = 13$$

$$\frac{(2 \square 7 + 10)}{2} = 12$$

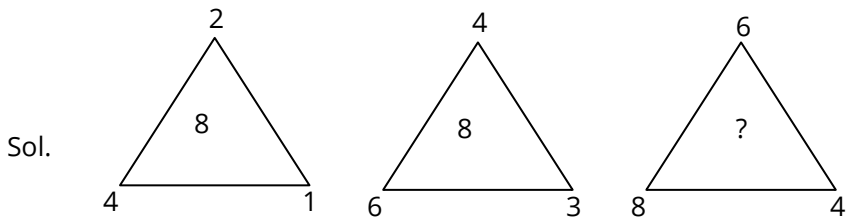
73. (4)



$$\frac{9 \square 6 \square 3}{3} = 54$$

$$\frac{4 \square 8 \square 6}{3} = 64$$

74. (3)

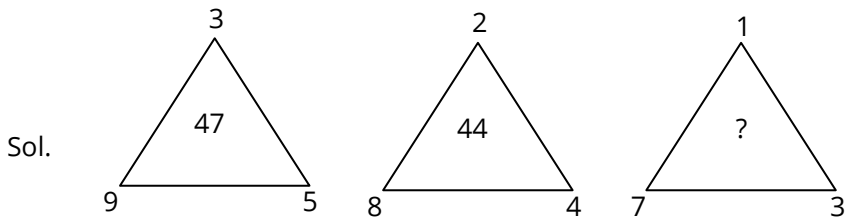


$$\frac{4 \square 2}{1} = 8$$

$$\frac{6 \square}{4 \square 3} = 8$$

$$\frac{8 \square 6}{4} = 12$$

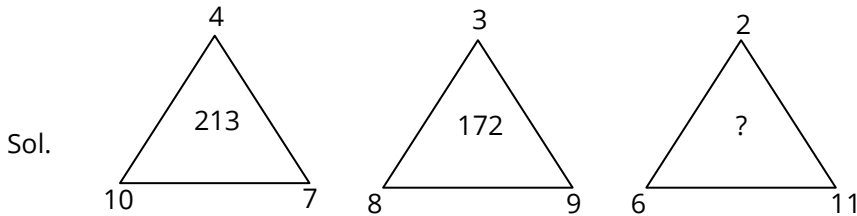
75. (2)



$$9^2 - (5^2 + 3^2) = 47$$

$$7^2 - (3^2 + 1^2) = 39$$

76. (1)

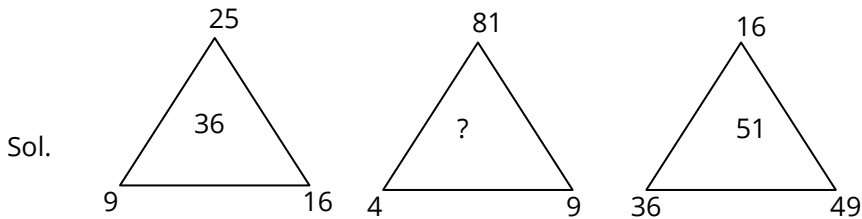


$$10^2 + 7^2 + 4^2 = 213$$

$$8^2 + 9^2 + 3^2 = 172$$

$$11^2 + 6^2 + 2^2 = 165$$

77. (2)



$$(5 + 4 + 3) \times 3 = 36$$

$$(4 + 7 + 6) \times 3 = 51$$

$$(9 + 3 + 2) \times 3 = 42$$

78. (2)

Sol. 1st Day: Monday
6th day: Saturday
6, 13, 20, 27 h → 4th Saturday

79. (Bonus)

Sol. 3rd Aug, 2020: Monday
After 5 months and 5 days
Aug Sept Oct Nov Dec Jan

□
3rd Jan: 5 months
+5 days
8th Jan, 2021 i.e. Wednesday

80. (4)

Sol. 2 feet up and $\frac{1}{2}$ feet down i.e., $1\frac{1}{2}$ feet up in 1 time

For 9 feet

$\frac{3}{2}$ feet \rightarrow 1 time

$2 \times 4 = 6$ feet \rightarrow 4 times

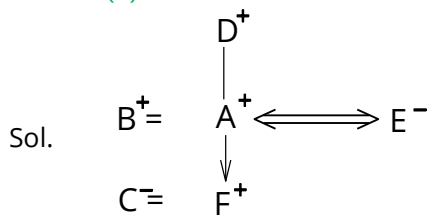
Next $\frac{3}{2}$ feet \rightarrow 1 times

7.5 feet \rightarrow 5 times

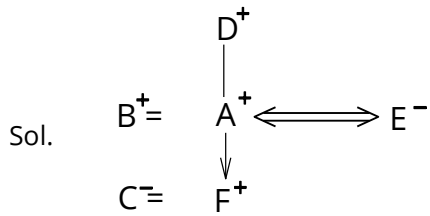
2 feet \rightarrow 6 times

Ans. 4

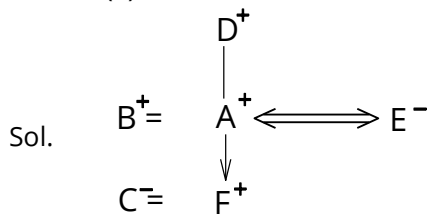
81. (3)



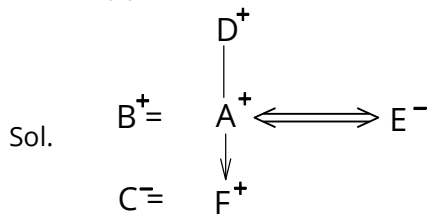
82. (3)



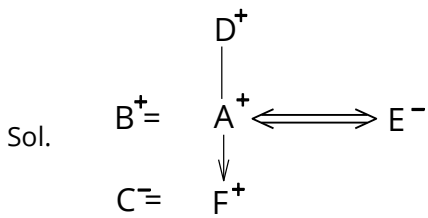
83. (4)



84. (2)



85. (1)



86. (4)

Sol.

Teena 1997	Neena 2004	Meena 1989	Beena 1999	Reena 1992
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87. (2)

Sol.

Teena 1997	Neena 2004	Meena 1989	Beena 1999	Reena 1992
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88. (1)

Sol.

Teena 1997	Neena 2004	Meena 1989	Beena 1999	Reena 1992
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89. (3)

Sol.

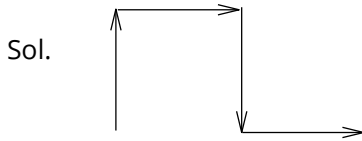
Teena 1997	Neena 2004	Meena 1989	Beena 1999	Reena 1992
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90. (4)

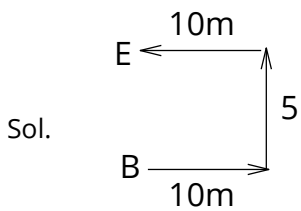
Sol.

Teena 1997	Neena 2004	Meena 1989	Beena 1999	Reena 1992
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91. (1)



92. (3)

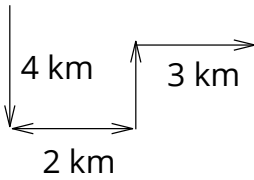


93. (4)

Sol. Cloud is coded as water.

94. (3)

II (South)
 ↓
 Left
 (East)
 Sol. ↑
 (North) Ist

95. (1)
 Sol. 

96. (2)
 Sol. n o i j o n p t a k t l n o p u j e t b n a p u b
 o = 3, n = 4, p = 3, t = 3
 Ans. 2

97. (4)
 Sol. Find vowel consonant vowel

98. (3)
 Sol. Find vowel consonant consonant i.e. (onp) (akt) (etb)

99. (4)
 Sol. Find consonant consonant vowel i.e. (pta) (lno) (bna)

100. (2)
 Sol. n, j, p, k, t, l, b