



**NATIONAL TALENT SEARCH EXAMINATION
(STAGE - I) - 2020-2021
UTTAR PRADESH
FIITJEE ANSWER KEY**

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

Note: Green color signify FIITJEE answer keys are correct. Official answer keys were wrong.

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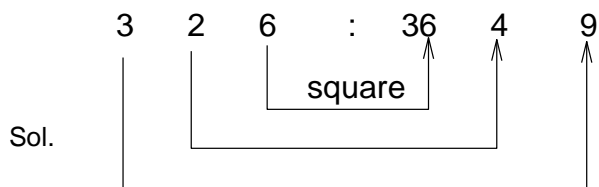


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SOLUTIONS

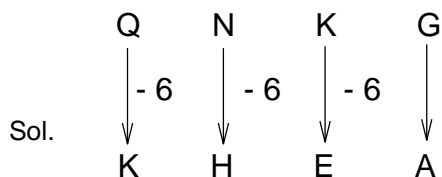
MENTAL ABILITY

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)



Square of each digit in reverse.

14. (2)
Sol. Second is the part of first.
15. (1)



16. (3)
Sol.
- | | | |
|----------------------------------|---|---|
| B | G | F |
| ↓ | ↓ | ↓ |
| $(2 \times 7 \times 6) - 4 = 80$ | | |

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)

Sol.

-3 -3

 $\times 3$ $\times 3$

24. (4)

Sol.

-4 -4 -4

 $+3$ $+3$ $+3$

25. (1)

Sol.

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

 -27 -23 -19 -15
 -4 -4 -4

26. (3)

Sol.

UQN, LHE, CYV, ?,

 -9 -9 -9

27. (1)

Sol.

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

 $+2$ $\times 3$ $+4$ $\times 5$ $+6$ $\times 7$

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

$$5 \times 2 + 2 = 12$$

$$12 = 12$$

34. (1)

Sol. $18 + 5 \times 4 \div 2 = 28$

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

$$28 = 28$$

35. (4)

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

$$18 = 18$$

36. (2)

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

$$25 + 29 - 17 = 37$$

$$37 = 37$$

37. (3)

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

$$2 + 12 = 14$$

$$14 = 14$$

38. (1)

Sol. $18 + 6 \div 3 \times 9 = 36$

$$18 + 2 \times 9 = 36$$

$$18 + 18 = 36$$

$$36 = 36$$

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

42. (2)

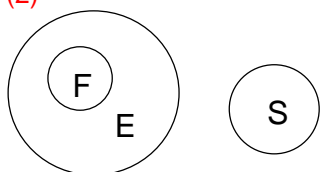
Sol. $14 \times 3 + 7 = 63 - 14$
 $42 + 7 = 49$
 $49 = 49$

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)

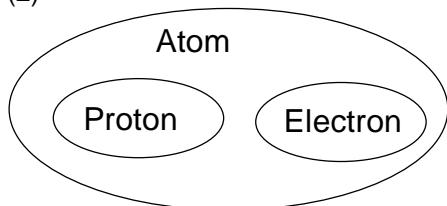
Sol. All parrot are birds and bat is not.

50. (4)

Sol. Silver is mineral and wood is different.

51. (2)

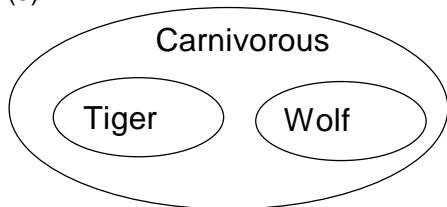
Sol.



Option 2 i.e. 4

52. (3)

Sol.



53. (2)
Sol. $\underline{c}c\underline{b}a / \underline{c}c\underline{b}a / \underline{c}c\underline{b}a / \underline{c}c\underline{b}a$

54. (4)
Sol. $\underline{f}r\underline{a}m\underline{e} / \underline{f}r\underline{a}m\underline{e} / \underline{f}r\underline{a}m\underline{e}$

55. (3)
Sol. $\underline{m}a\underline{m}m\underline{a}l / \underline{m}a\underline{m}m\underline{a}l / \underline{m}a\underline{m}m\underline{a}l$

56. (1)
Sol. $\underline{c}n\underline{b}c / \underline{c}n\underline{b}c / \underline{c}n\underline{b}c / \underline{c}n\underline{b}c$

57. (2)
Sol. $\underline{j}a\underline{l}sa / \underline{j}a\underline{l}sa / \underline{j}a\underline{l}sa$

58. (4)

N	I	B	6	4	3	B = 6
B	E	T	1	5	6	E = 5
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. $\begin{matrix} \downarrow & \downarrow & \downarrow \\ 16 & 5 & 14 \end{matrix}$
 $(16 \times 5) - 14 = 66$

65. (2)

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

66. (4)

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

67. (3)

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

68. (3)

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

69. (3)

Sol. $4^3 + 26 + 19 = 109$

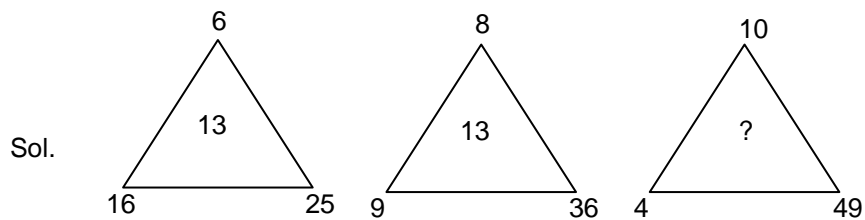
70. (2)

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

71. (4)

Sol. $7^3 - 9^2 - 4^3 = 198$
 $6^3 - 7^2 - 2^3 = 159$

72. (1)

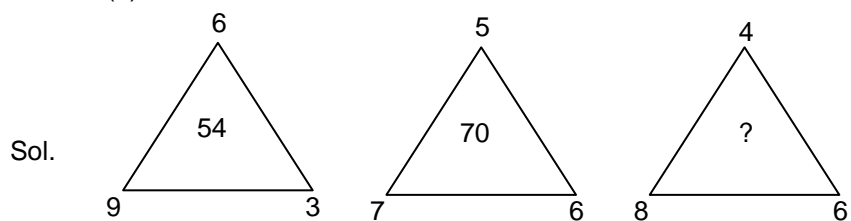


$$\frac{(4 \times 5 + 6)}{2} = 13$$

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

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

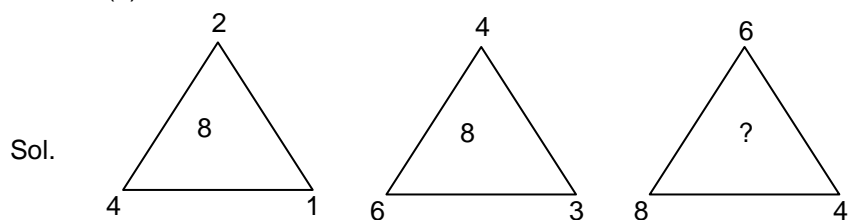
73. (4)



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

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

74. (3)



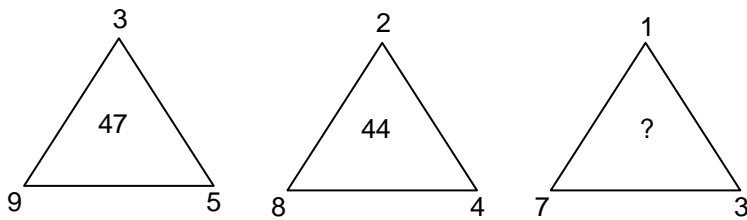
$$\frac{4 \times 2}{1} = 8$$

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

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

75. (2)

Sol.

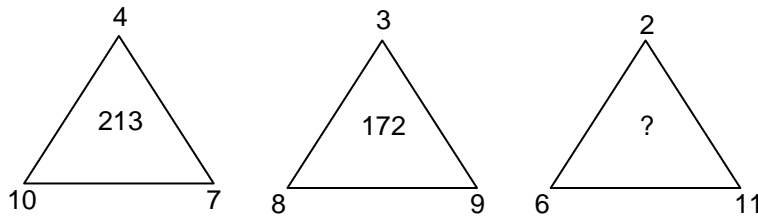


$$9^2 - (5^2 + 3^2) = 47$$

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

76. (1)

Sol.



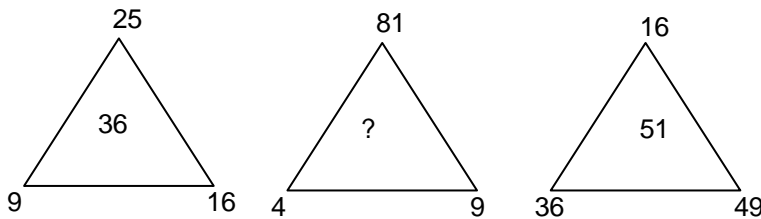
$$10^2 + 7^2 + 4^3 = 213$$

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

$$11^2 + 6^2 + 2^3 = 165$$

77. (2)

Sol.



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

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

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

78. (2)

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

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

$$\frac{3}{2} \times 4 = 6 \text{ feet} \rightarrow 4 \text{ times}$$

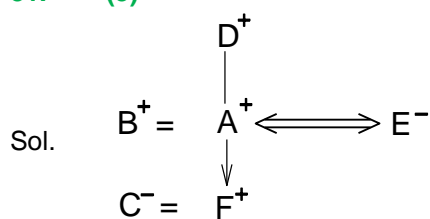
$$\text{Next } \frac{3}{2} \text{ feet} \rightarrow 1 \text{ times}$$

$$7.5 \text{ feet} \rightarrow 5 \text{ times}$$

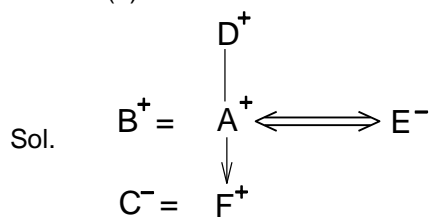
$$2 \text{ feet} \rightarrow 6 \text{ times}$$

Ans. 4

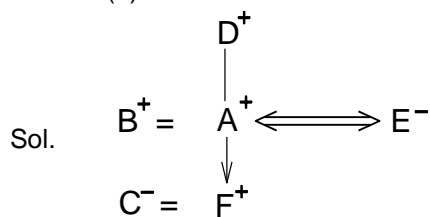
81. (3)



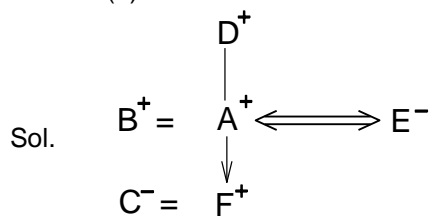
82. (3)



83. (4)

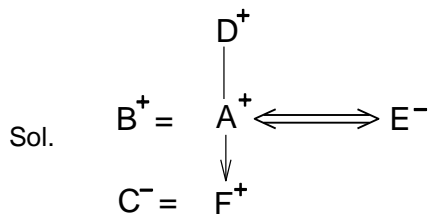


84. (2)



85. (1)





86. (4)

Teena	Neena	Meena	Beena	Reena
-------	-------	-------	-------	-------

Sol.

1997	2004	1989	1999	1992
------	------	------	------	------

87. (2)

Teena	Neena	Meena	Beena	Reena
-------	-------	-------	-------	-------

Sol.

1997	2004	1989	1999	1992
------	------	------	------	------

88. (1)

Teena	Neena	Meena	Beena	Reena
-------	-------	-------	-------	-------

Sol.

1997	2004	1989	1999	1992
------	------	------	------	------

89. (3)

Teena	Neena	Meena	Beena	Reena
-------	-------	-------	-------	-------

Sol.

1997	2004	1989	1999	1992
------	------	------	------	------

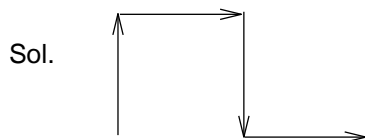
90. (4)

Teena	Neena	Meena	Beena	Reena
-------	-------	-------	-------	-------

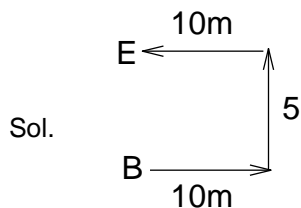
Sol.

1997	2004	1989	1999	1992
------	------	------	------	------

91. (1)



92. (3)

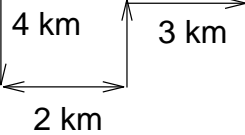


93. (4)

Sol. Cloud is coded as water.

94. (3)

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

95. (1)
 Sol. 

96. (2)
 Sol. noijonptaktlnopujetbnapub
 $o = 3, n = 4, p = 3, t = 3$
 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