

CHANDIGARH NTSE STAGE 1 2019-20 (MENTAL ABILITY TEST)

FIITJEE CHANDIGARH ANSWER KEYS

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

**** None of the option is correct.**

Solution1. **B****Sol.** $\times 2 + 1, \times 2 + 2, \times 2 + 3, \dots$ 2. **D****Sol.** difference is $3 + 8 = 11, 4 + 9 = 13, 6 + 2 = 8, 7 + 0 = 7, 7 + 7 = 14$ 3. **A****Sol.** $3^2 + 4 = 13, 4^2 + 5 = 21, 5^5 + 6 = 31, 7^2 + 6 = 55$ 4. **B****Sol.** $1^2, 2^3, 3^2, 4^3, 5^2, 6^3, 7^2, 8^3$ 5. **C****Sol.** $A + 2 = C + 2 = E + 2 = G + 2 = I$
 $Y - 2 = W - 2 = U - 2 = S - 2 = Q$ 6. **B****Sol.** $1^3 + 1^2, 2^3 + 2^2, 3^3 + 3^2$ and so on7. **A****Sol.** $(2 \times 1) + 1 = 3$
 $(3 \times 2) + 2 = 8$
 $(8 \times 3) + 3 = 27$
 $(27 \times 4) + 4 = 112$ 8. **D****Sol.** difference is $1 \times 2 = 2, 1 \times 4 = 4, 1 \times 8 = 8, 2 \times 6 = 12, 3 \times 8 = 24$ 9. **C****Sol.** If we arrange Last four alphabet it will be in sequence.10. **B****Sol.** If we rearrange the alphabet it will become HARYANA, CHANDIGARH, RAJASTHAN, PUNJAB so CHANDIGARH is odd11. **C****Sol.** abba/abba/abba/.....12. **B****Sol.** aaabbc/aaabbc/.....13. **B****Sol.** abc/cab/bca/abc/.....14. **D****Sol.** 23541/14532/23541/.....15. **B****Sol.** 1022/1022/1022/.....16. **D****Sol.** $3^2 + 2^1 + 1^1 = 12$
 $5^2 + 2^1 + 4^1 = 31$ 17. **C****Sol.** $(1 \times 2) + (2 \times 7) + (1 \times 7) = 23$
 $(3 \times 4) + (4 \times 5) + (5 \times 3) = 47$ 18. **B****Sol.** $2^3 4^2 = 816$
 $3^3 5^2 = 2725$

19. B

Sol. $X - 1 = W$ $D - 1 = C$
 $V + 1 = W$ $X + 1 = Y$
 $R + 1 = S$ $K + 1 = L$

20. C

Sol. $R = 18/2 = 9$
 $P = 16/2 = 8$
 RP = 98 now interchange the position of 98

21. D

Sol. After multiplying the digit of 23 we get 6
 And After multiplying the digit of 24 we get 8
 Now if we multiply 6 and 8 we get 48 and so on

22. **

Sol. Wrong Question

23. B

Sol. $6 \times 7 = 42$
 $7 \times 12 = 84$
 $12 \times 13 = 156$

24. B

Sol. $(7 - 3)^3, (13 - 7)^3$
 $(13 - 8)^3 = 125$

Sol. (25-28)By observation

29. A

Sol. By observation

30. D

Sol. By observation

31. B

Sol. By observation

32. C

Sol. By observation

33. D

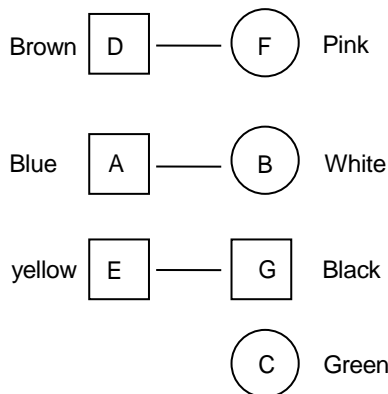
Sol. By observation

34. D

Sol. By observation

(35-37)

Sol.



38. A

Sol. $2^2 + 4^4 + 5^5 = 3385$

39. D

Sol. $\left[\frac{28}{7} + \frac{27}{9} \right]^3 = 343$

40. B

Sol. $120 \times \frac{2}{11} = \frac{240}{11} = 21\frac{9}{11}$ minutes past 4

41. A

Sol. 15 Aug 2047

Complete year = 2046

Odd days

1 to 2000 = 0

46 = 46

11 = 11

Jan = 3

Feb = 0

Mar = 3

Apr = 2

May = 3

Jun = 2

July = 2

15 Aug = 1

$$\frac{74}{7} = r = 4\text{Thur}$$

42. C

Sol. By observation

43. D

Sol. G = 7

I = 9

$$7^2 + 9^2 = 130$$

44. C

Sol. By observation

45. D

Sol. By observation

46. D

Sol. By observation

47. **

Sol. Wrong question

48-51

Sol. $\begin{array}{r} 148 \\ +874 \\ \hline 1022 \end{array}$ L = 1, E = 4, T = 8, H = 7, O = 0, S = 2

52. A

Sol. N = 14

T = 20

S = 19

E = 5 If we add all of them we get 58

53. D

Sol. O = 15

M = 13

If we multiply both of them we get 195

54. B

Sol. If we add extreme digits and multiply with middle digit we get 28, 39, 98, 96 and interchange their position to get 82, 93, 89, 69

55. **

Sol. Wrong Question

56-58

Sol. By observation

59-62

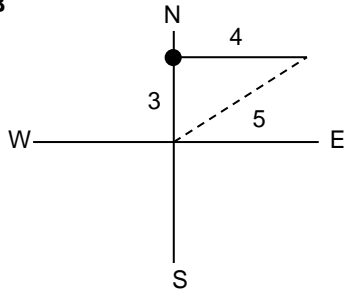
Sol. By observation

63. B

Sol. By observation

64. B

Sol.



65. B

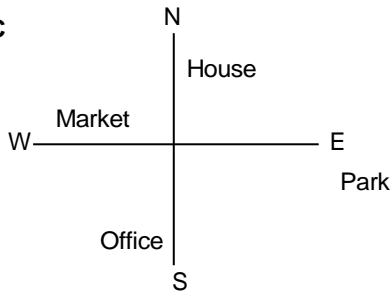
Sol. By observation

66. C

Sol. There is no G in RECOMENDABLE

67. C

Sol.



68. C

Sol. By observation

69. C

Sol. By observation

70. B

Sol. By observation

71. C

Sol. By observation

72. C

Sol. By observation

73. B

Sol. By observation

74. B

Sol. By observation

75. D

Sol. By observation

76. D

Sol. By observation

77. B

Sol. By observation

78. D

Sol. By observation

79. C
Sol. By observation
80. B
Sol. By observation
81. C
Sol. By observation
82. A
Sol. By observation
83. B
Sol. By observation
84. D
Sol. By observation
85. A
Sol. By observation
86. C
Sol. By observation
87. A
Sol. By observation
88. C
Sol. By observation
89. D
Sol. By observation
90. C
Sol. By observation
91. C
Sol. By observation
92. A
Sol. By observation
93. A
Sol. By observation
94. A
Sol. By observation
95. C
Sol. By observation
96. D
Sol. By observation
97. B
Sol. By observation
98. A
Sol. By observation
99. B
Sol. By observation
100. D
Sol. By observation