

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

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.

Solution

1. **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 on

7. **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 odd

11. **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

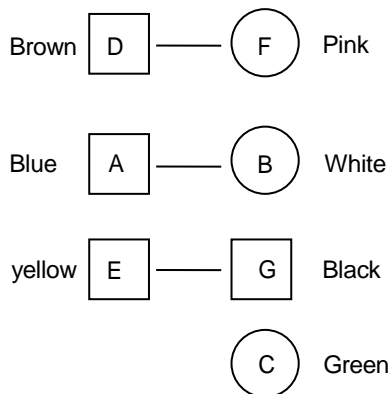
Sol. By observation

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 there position to get 82, 93, 89, 69

55. **

Sol. Wrong Question

56-58

Sol. By observation

59-62

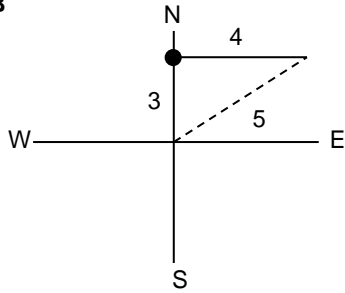
Sol. By observation

63. B

Sol. By observation

64. B

Sol.



65. B

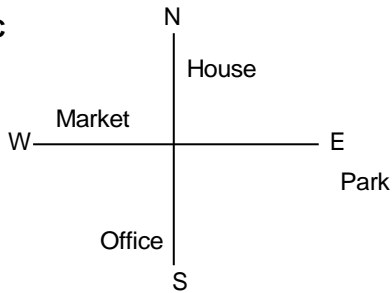
Sol. By observation

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