

NATIONAL TALENT SEARCH EXAMINATION-2018-19, RAIPUR

MENTAL ABILITY TEST (MAT) HINTS & SOLUTIONS

1. ()

2. (D)

Sol. $(5 \times 3) + \frac{24}{2} = 27,$ $(8 \times 3) + \frac{8}{4} = 26$

$(7 \times 5) + \frac{48}{3} = 35 + 16 = 51$

3. (B)

Sol.

A	E	K	G	K	Q	M	Q	W
1	5	1	7	11	17	13	17	23
	+4	+6		+4	+6		+4	+6

4. (C)

Sol. $\frac{69 + 48}{13} = 9,$ $\frac{28 + 44}{8} = 9$

$\frac{x + 34}{9} = 9$

$x = 47$

5. (B)

Sol.

$13 + (7 \times 2) = 27 \mid 57 + (43 \times 2) = 140$

$x + (2 \times 33) = 72$

$x = 6$

6. ()

7. (D)

Sol. All other three measures weight a gallon measure volume.

8. ()

9. (A)

10. (C)

Sol.

$$\frac{T}{J} : 2 :: \frac{X}{m} : ?$$

$$\frac{T}{J} : \frac{20}{10} = 2$$

$$\frac{X}{H} = \frac{24}{8} = 3$$

11. (I)

12. (BONUS)

13. (B)

Sol.

GA → AG

RD → DR

EN → NE

MA → AM

GN → NG

ET → TE

14. (C)

Sol. HIGH

$$H = 8$$

$$I = 27 - 9 = 18$$

$$G = 7$$

$$H = 27 - 8 = 19$$

15. (D)

Sol.

CAR

$$C = 3 + 5 = 8 \quad | \quad 1 + 2 = 3 \quad | \quad 18 + 2 = 20 \quad R -$$

BLUE

$$2 + 2 = 4 \quad | \quad 12 + 2 = 14 \quad | \quad 21 + 2 = 23 \quad | \quad 5 + 2 = 7$$

Ans. 723144

16. (B/ BONUS)

Sol.

$$7 = 3^2 - 2, \quad 13 = 4^2 - 3,$$

$$21 = 5^2 - 4,$$

$$31 = 6^2 - 5,$$

$$43 = 7^2 - 6$$

17. (C)

Sol.

$$2 = 2^2 - 2, \quad 12 = 3^2 + 3, \quad 20 = 5^2 - 5,$$

$$56 = 7^2 + 7$$

18. (B)

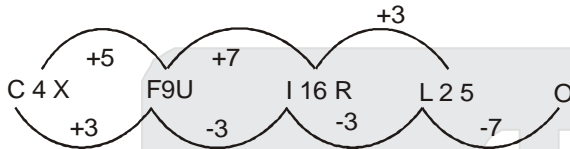
Sol.

Every term is multiply by 10.

19. (C)

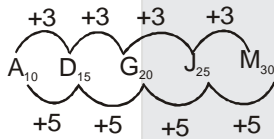
20. (B)

Sol.



21. (BONUS)

Sol.

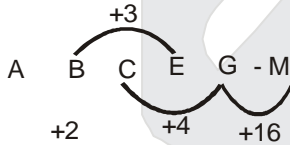


22. (C)

Pattern is **aneeb**.

23. ()

Sol.

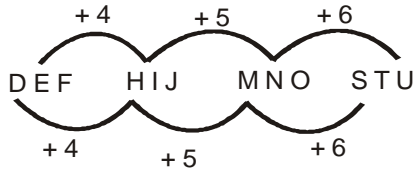


24. (D)

Sol. DF, GJ, KM, NQ, RT, ?

D + 3 = G	F + 4 = J
G + 4 = K	J + 3 = M
K + 3 = N	M + 4 = Q
N + 4 = R	Q + 3 = T
R + 3 = U	T + 4 = X

25. (A)



So.

26. (C)

Sol. D(+)

↑

B(-) ↔ A

F(+), P(+), R(-)

P is son of A

27. Sol. E (+) ↔ F(-)

↑

D(+) ↔ (E)

↑

B(+) ↔ A (-)

F is grandmother of B

28. (A)

Sol. x,

↑

Man /is + (-)

Z(-), Har/is +

Har/it x ma/it are cousin

29. (C)

Sol. Y (+)

X (+)

Ram, Y(-)

Lady is Niece of Ram.

30. (C)

Sol. Q(-)

↓

P (+), S (+) ↔ T (-)

↑

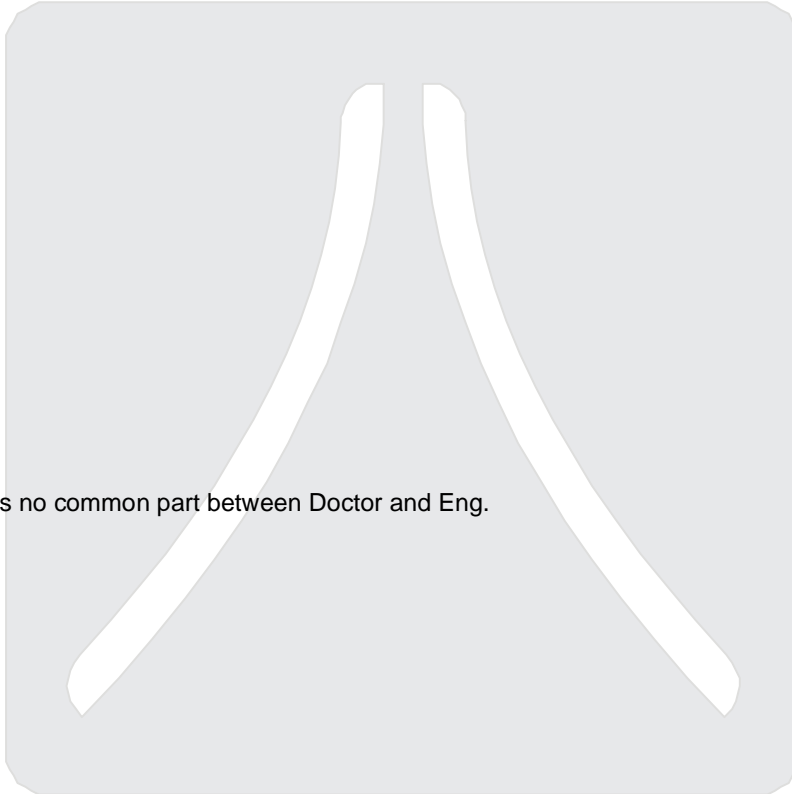
R(+)

There are 3 Males & 2 Females

31. (D)
32. (A)
33. (C/D)
34. (C)
35. (BONUS)
36. (C)
37. (BONUS)
38. (C)
39. (C)
40. (B)
41. (D)
42. (C)
43. (BONUS)
44. (A)
45. (BONUS)
46. (C)
47. (D)
48. (D)
49. (C)
50. (D)
51. (D)
52. (A)
53. (B)
54. (BONUS)
55. (C)

Sol. There is no common part between Doctor and Eng.

Sol. $6 \div 2 \times 4 - 2 + 5 = 15$



82. (C)

DISC 69

Sol. $\overline{D12C\theta\theta}$

83. (B)

11 : 60

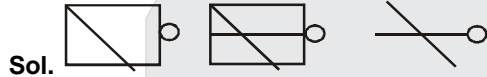
3 : 30

Sol. $\overline{8 : 30}$

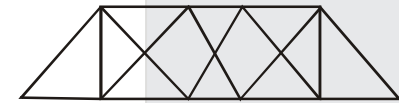
84. (C)

85. (D)

86. (A)



87. (B)



88. (B)

89. (C)

90. (D)

91. (C)

92. (C)

93. (D)

94. (B)

95. (C)

96. (B)

97. (C)

98. (C)

99. (B)

100. (D)

