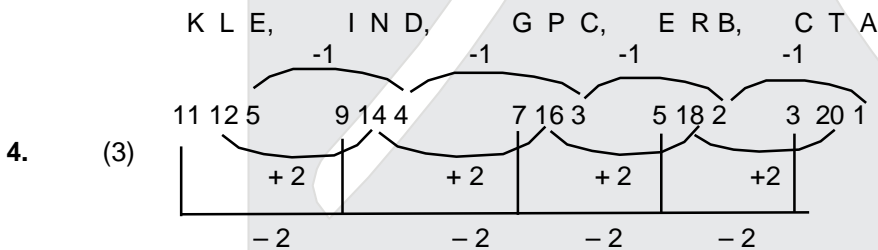
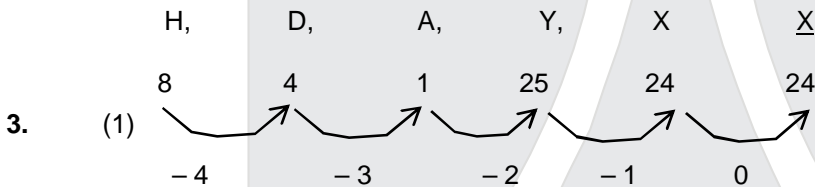
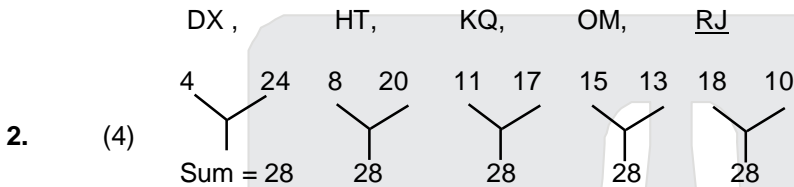
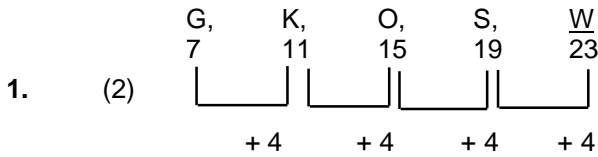


NATIONAL TALENT SEARCH EXAMINATION-2018, RAJASTHAN

**MENTAL ABILITY TEST (MAT) HINTS & SOLUTIONS**

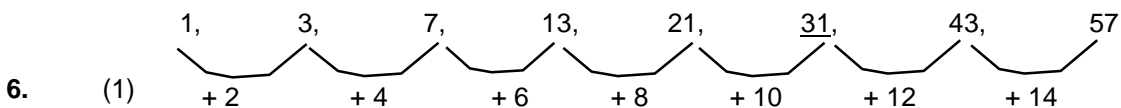


5. (2)

4 , 9 , 25 , 49 , 121 , 169

$2^2$  ,  $3^2$  ,  $5^2$  ,  $7^2$  ,  $11^2$  ,  $13^2$

Hint : Square of prime number.



7. (3)
- 5, 3, 10, 8, 17, 15, 26, 24
- 2   +7   -2   +9   -2   +11   -2
- +2   +2

8. (4)
- 97, 77, 59, 43, 29, 17
- 20   -18   -16   -14   -12

9. (1)
- 

10. (3)

11. (2)

12. (3)

13. (1)

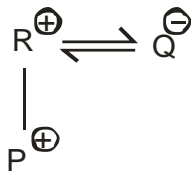
14. (2)

15. (Bonus) Required percentage =  $\frac{11}{500} \times 100 = 2.2\%$  (Bonus)

16. (2) All are countries and kabul is city

17. (3)

18. (1)  $P + R - Q$



Q is father of P.

19. (1)
-



28. (3)

29. (2)

	5	$(5 - 2)^2 = 9$
16	109	2
$(16 - 6)^2 = 100$	6	

	21	$(21 - 19)^2 = 4$
22	53	19
$(22 - 15)^2 = 49$	15	

$\Rightarrow 100 + 9 = 109$        $\Rightarrow 49 + 4 = 53$

	51	$(51 - 48)^2 = 9$
17	?	48
$(17 - 13)^2 = 16$	13	

$\Rightarrow 16 + 9 = 25$  Ans

30. (2)

31. (4) In alternate figure side is decreased


because (A)  $\rightarrow$  hexagon      (C)  $\rightarrow$  Pentagon      (E)  $\rightarrow$  Will be quadrilateral

32. (3)

33. (1)

Move anticlockwise direction with  $45^\circ$  and colour will be same in alternate figure.

34. (4)

$\square$  is rotate in clockwise direction by  $\frac{1}{2}$  while  $\triangle$  is rotate in anticlock wise direction  $\frac{1}{2}$  then 1 then 1 and  $\frac{1}{2}$  distance so answer is 

35. (4) Mirror image of U is same as the figure.


36. (3)

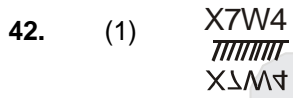
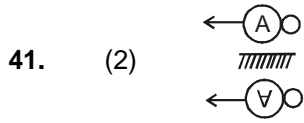
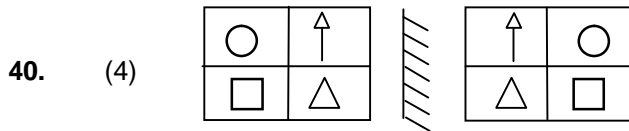
In options (1), (2) & (4) Inner arrow is in anticlockwise direction & outer arrow is in clockwise direction while in option (3) inner arrow is in clockwise direction & outer arrow is in anticlockwise direction.

37. (1)

38. (4)

In all options, dark sides are opposite except option (4)

39. (2) STOP   $\overline{\text{POTZ}}$



43. (3)

44. (2)

45. (3)

46. (4)

47. (1)

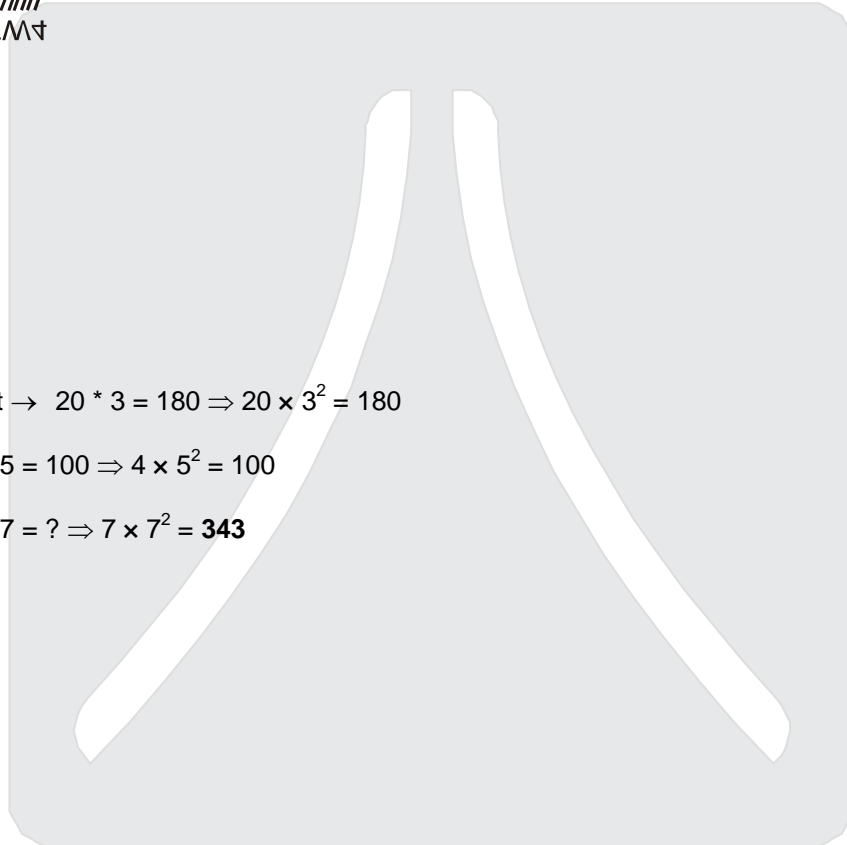
48. (3) Hint  $\rightarrow 20 * 3 = 180 \Rightarrow 20 \times 3^2 = 180$

$$4 * 5 = 100 \Rightarrow 4 \times 5^2 = 100$$

$$7 * 7 = ? \Rightarrow 7 \times 7^2 = \mathbf{343}$$

49. (1)

50. (3)





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**Phase-2:** 01 to 07 Jan 2018)

**Stage-2**

25 Dec to 07 Jan 2018

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