

**STATE TALENT SEARCH EXAMINATION-2017**  
**MENTAL ABILITY TEST (MAT) HINTS & SOLUTIONS**

1. **Sol. (4)**  
Planet -----> Astronomy
2. **Sol. (3)**  
Cloth -----> Textile Mill
3. **Sol. (1)**  
Gangtok (Rest are States)
4. **Sol. (1)**  
 $729 : 999 = 9^3 : (10^3 - 1)$   
Rest are following  $x^3 : (x+1)^3$
5. **Sol. (2)**  
1250, 250, 50, 10  
Every term is divided by 5 to get the next term.
6. **Sol. (3)**  
JOCK : QLXP :: HEAT : ?  
(J+Q) = 27  
(O+L) = 27  
(C+X) = 27  
(K+P) = 27  
So for HEAT the pair is SVZG
7. **Sol. (2)**  
INDIA -----> KPFKC  
Every letter is increased by +2
8. **Sol. (4)**  
INDIA -----> 12 - 17 - 7 - 12 - 4  
This is (Letter position +3)  
Similarly, BHARAT -----> 5 - 11 - 4 - 21 - 4 - 23
9. **Sol. (1)**  
Uncle – Niece
10. **Sol. (3)**  
Mother in Law
11. **Sol. (1)**  
B is father of A
12. **Sol. (4)**  
A is maternal Uncle of B
13. **Sol. (1)**  
North



14. Sol. (2)

5 Km

15. Sol. (2)

7 persons

16. Sol. (4)

4 persons

17. Sol. (2)

ADMINISTRATION word doesn't contain letter E so MINISTER can't be formed.

18. Sol. (2)

Z X V T R P N L J H F D B

so Letter N divides the remaining alphabet equally

19. Sol. (3)

$$8 + 7 - 5 \times 4 \div 2 = 5$$

20. Sol. (3)

$$6 \times 5 - 24 \div 3 + 1 = 23$$

21. Sol. (1)

Cement, Cemetery, Censor, Census

22. Sol. (3)

UNETHICAL

23. Sol. (4)

HARMONIUM

24. Sol. (3)

$$5x - 2(50 - x) = 145$$

$$7x = 245$$

$$x = 35$$

25. Sol. (1)

$$X - Y = 5$$

$$X + 15 = \frac{3}{2}(Y)$$

Solving we get, X = 45

26. Sol. (4)

Rule is  $(\times 2 - 1)$

27. Sol. (3)

$$6 \times 5 + 4 = 34$$

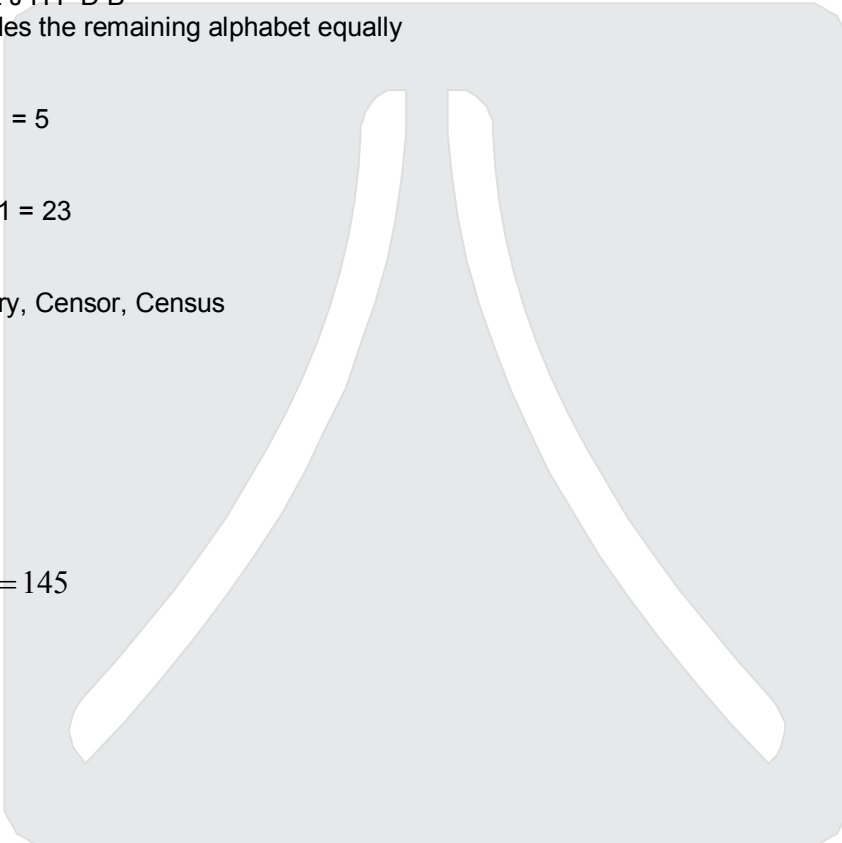
$$7 \times 8 + 5 = 61$$

$$9 \times 10 + 6 = 96$$

28. Sol. (1)

$$(27 - 7) = 20$$

29. Sol. (4)



30. Sol. (4)

31. Sol. (3)

32. Sol. (3)

33. Sol. (1)

34. Sol. (2)

35. Sol. (3)

36. Sol. (2)

37. Sol. (3)

38. Sol. ()

35. Sol. (3)

In all a polygon is circumscribed by a circle except in C, when reverse case is there

36. Sol. (2)

37. Sol. (1)

38. Sol. (Bonus)

**11 Alphabets have same Mirror Image**  
**A, H, I, M, O, T, U, V, W, X, Y**  
**No Option is there.**

39. Sol. (3)

40. Sol. (1)

41. Sol. (4)

42. Sol. (2)

43. Sol. (4,1)

44. Sol. (4)

$9 \times 5 = 45$   
 $7 \times 4 = 28$   
 $5 \times 3 = 15$   
 Total = 89

45. Sol. (3)

46. Sol. (Bonus)

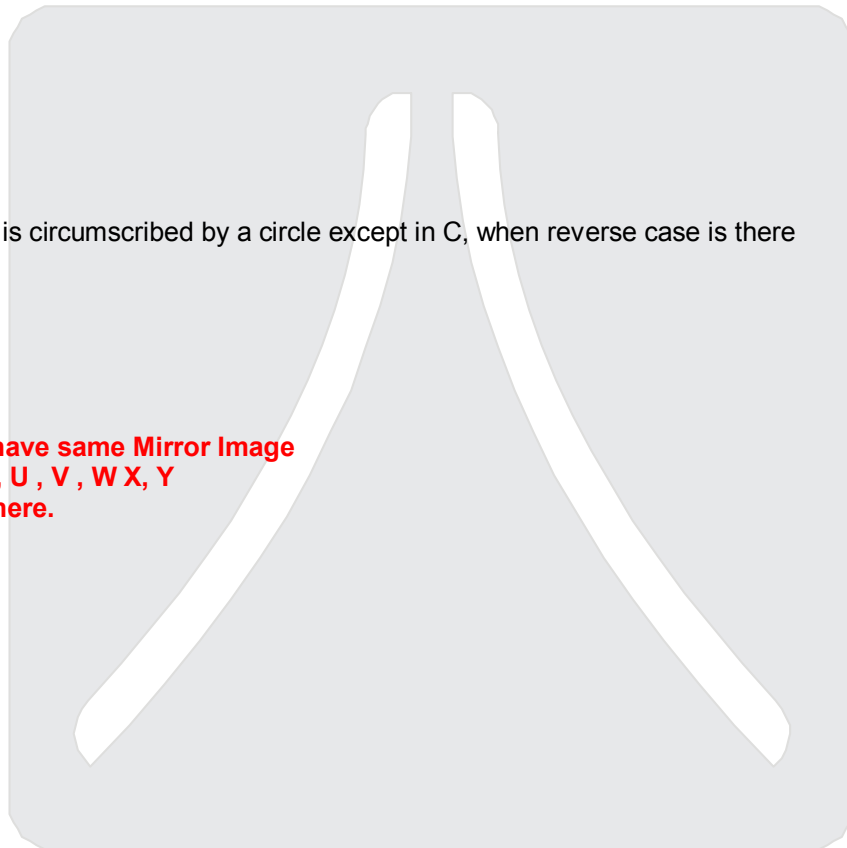
**Figures are not proportionate.**

47. Sol. (1)

48. Sol. (4)

49. Sol. (3)

50. Sol. (1)



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# WINTER WORKSHOP

2017-18

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**IJSO  
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For Class: 7, 8 & 9

**BOARD**  
For Class: 10

**NTSE  
(STAGE-1 & 2)**  
For Class: 9 & 10

**Stage-1**

**Phase-1:** 25 to 31 Dec 2017

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

**Stage-2**

25 Dec to 07 Jan 2018

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