

# NTSE-2015-16 (Stage-I)

## SOLUTIONS MAT

Time allowed : 45 Min.

Maximum Marks : 50

1. Alphabet in decreasing order in series  
 $Z \xrightarrow{-3} W \xrightarrow{-4} S \xrightarrow{-5} N \xrightarrow{-6} H$

2.  $AN \xrightarrow{+2} CP \xrightarrow{+3} FS \xrightarrow{+4} JV$

3.  $MYX \xrightarrow{-2} LWX \xrightarrow{-1} KUV \xrightarrow{-2} JST$

4.  $bdf \xrightarrow{+6} hjl \xrightarrow{+6} npr \xrightarrow{+6} tvx$

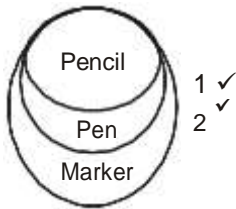
5.  $2^3 - 8$   
 $3^3 - 27$   
 $4^3 - 64$   
 $5^3 - 156$

6.  $5+6=11$   
 $11+8=19$   
 $19+10=29$   
 $29+12=41$

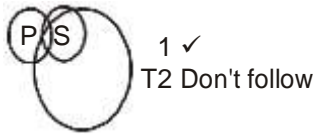
7.  $5^3 - 5 = 120$   
 $4^3 - 4 = 60$   
 $3^3 - 3 = 24$   
 $2^3 - 2 = 6$   
 $1^3 - 1 = 0$

8. 729, 81, 9, 1,  $\frac{1}{9}$ ,  $\frac{1}{81}$ ,  $\frac{1}{729}$

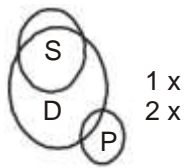
9.



10.



11.



12. 3, all three are different

13. delhi is in India and India is in asia

14. No. 20 is place in all three circle

15.  $5 + 17 + 14 = 34$  persons

16. in option 4, letter are in jumbling order

17. Every first No. is a square of 2<sup>nd</sup> no. but in option 3<sup>rd</sup> it is not applicable

18. All three things are use on the black board.

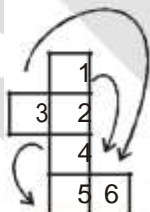
19. Shimla is not state

20.  $5 = 6$   
 $1 = 2$   
 $3 = 4$

21.  $1 = 5$   
 $2 = 6$   
 $3 = 4$

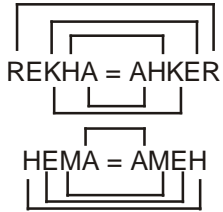
22.  $x = 3$  cm  
 Total no. of cubes =  $(x)^3 = (3)^3 = 27$

23.

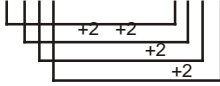


$1 = 4$   
 $2 = 5$   
 $6 = 3$

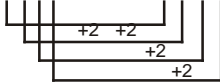
24.



25. Add (+2) in every next letter  
CHILDREN = EJKNFTGP



TEACHER = VGCEJGT

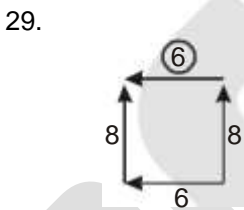
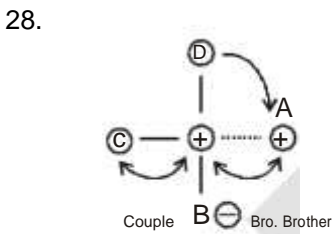


RUSTY = 96872

26. ZXWV = 1375  
Opposite letter No. coding

27. A place value is → 7  
B place value is → 9  
C place value is → 1  
D place value is → 3  
E place value is → 4  
M place value is → 5  
N place value is → 8

So  
BADMAN  
|||||  
973578



30.  $\Delta \rightarrow +$   
 $\theta \rightarrow \times$   
 $\rightarrow \div \phi$   
 $\rightarrow -$

31. in clockwise direction every quare a figure adding

32. every first (A) and second figure (B) is in reverse order

37. all are in clockwise direction so (B)

38.  $5 \times 2 = 10$

39.  $1^2+2^2+3^2=14$

47. there are 5 block

48. in the base there are 5 block then 4 block then 3, then 2 then 1 block, so square of every block from base  
 $1^2=1$   $2^2=4$   $3^2=9$

$$4^2=16$$

$$5^2=25$$

---

55

49.  $2 = 5$

$$1 = 6$$

$$3 = 4$$

50. Standard  
cube  $1+6=7$   
 $2+5=7$   $3+4=7$

\*\*\*\*\*