

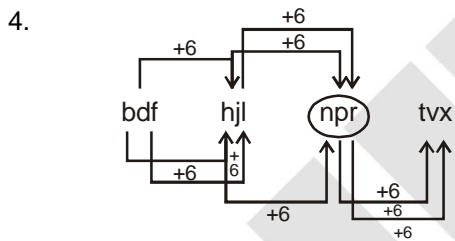
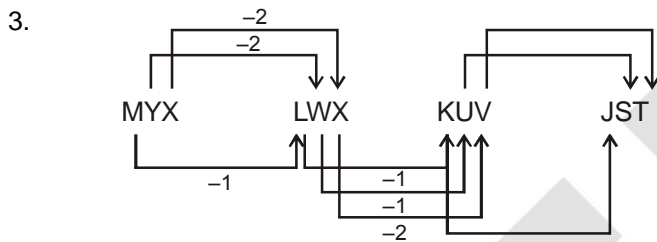
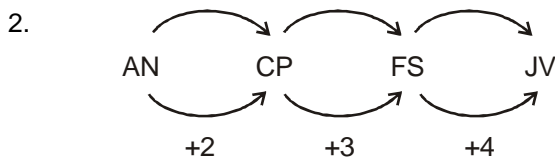
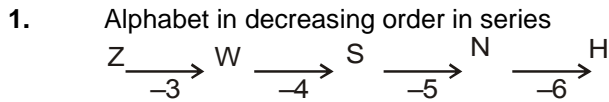
NTSE-2015-16 (Stage-I)

SOLUTIONS

MAT

Time allowed : 45 Min.

Maximum Marks : 50



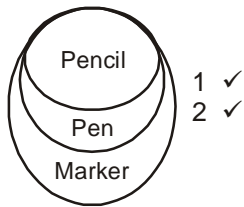
- 5.
- $2^3 - 8$
 - $3^3 - 27$
 - $4^3 - 64$
 - $5^3 - 156$

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

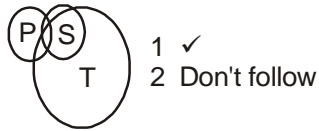
- 7.
- $5^3 - 5 = 120$
 - $4^3 - 4 = 60$
 - $3^3 - 3 = 24$
 - $2^3 - 2 = 6$
 - $1^3 - 1 = 0$

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

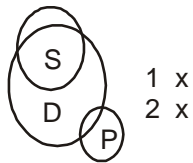
9.



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 2nd no. but in option 3rd it is not applicable

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

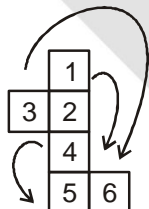
19. Shimla is not state

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

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

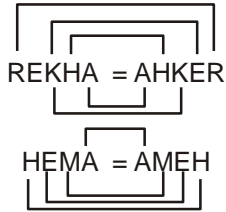
22. $x = 3$ cm
 Total no. of cubes = $(x)^3 = (3)^3 = 27$

23.

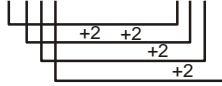


$1 = 4$
 $2 = 5$
 $6 = 3$

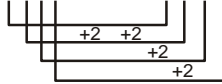
24.



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



TEACHER = VGCEJGT

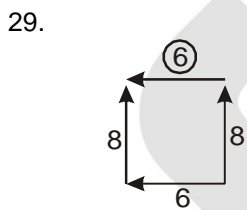
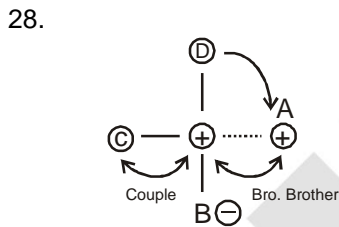


RUSTY = 96872

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
| | | | | | |
9 7 3 5 7 8



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

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

$$1 + 6 = 7$$

$$2 + 5 = 7$$

$$3 + 4 = 7$$
