

RAJASTHAN NTSE STAGE-I (2017)

CLASS-X [MAT]

HINTS & SOLUTIONS

ANSWER KEY

2. (1)
$$\begin{array}{c} +2 & +2 & +2 \\ 12 & 15 & 10 & 17 & 8 & 19 & 6 & 21 \\ L & O, & J & Q, & H & S, & \underline{F} & \underline{U} \\ -2 & -2 & -2 & -2 \end{array}$$

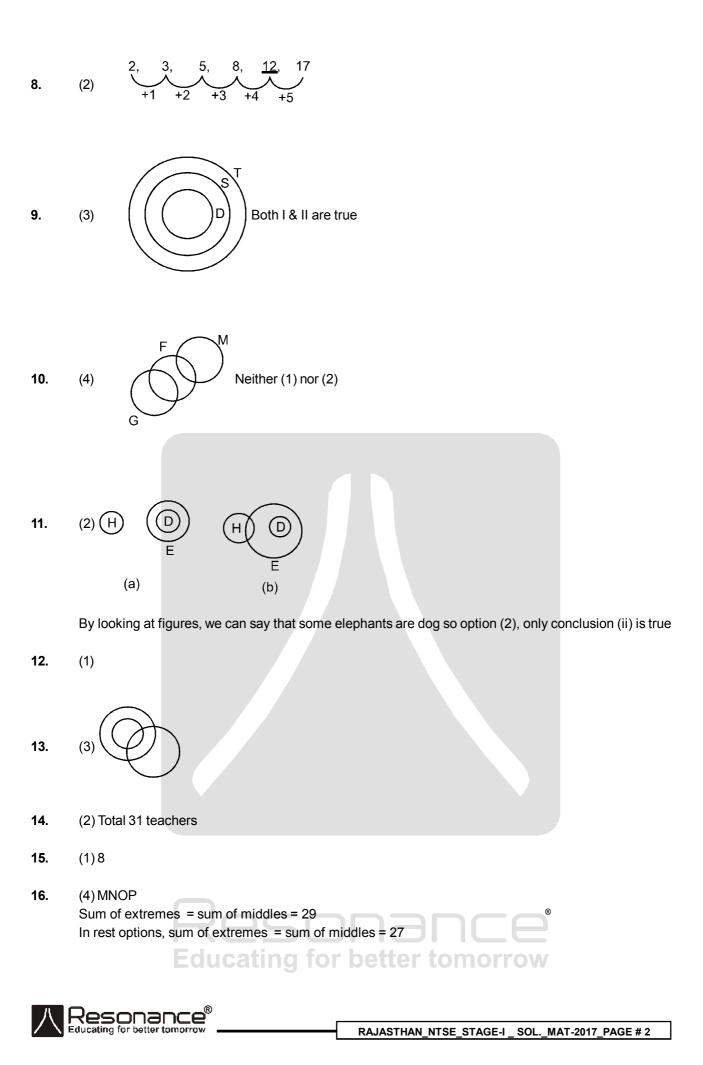
4. (2)
$$ZXV, TRP, NLJ, HFE$$

 26 20 14 8
 -6 -6 -6

All are mines 6

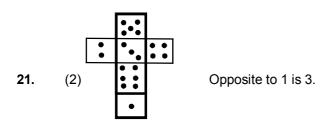
6. (2)
$$5, 10, 20, 40, 80$$
$$\times 2 \times 2 \times 2 \times 2 \times 2$$

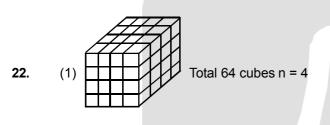




- **17.** (4) 2000 2 (Rest all options are giving 1000)
- **18.** (1) (Pacific Ocean) Rest all are continents
- **19.** (4) Australia Rest all are neighbours of India or are located in Asia.
- **20.** (4) 6

2 \leftarrow > 5 from first two figures 2 is opposite 5 from 1st and 3rd figures 1 is opposite 4. Hence 3 is opposite to 6.





no. of cubes not painted on any face $(n - 2)^3 =$ $(4 - 2)^3 = 8$

23. (3)

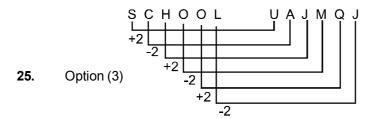
One face painted only $(n-2)^2 \times 6$ $(4-2)^2 \times 6 = 24$

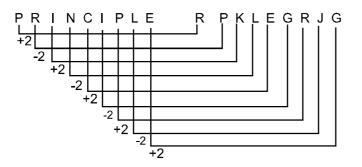
24.

(4)

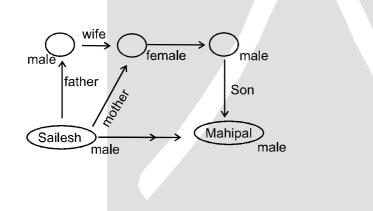


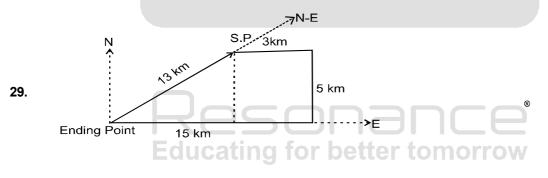






- 26. Option (3) 6 2 8 3 0 H A T C B
- 27. Option (1) B H I C K 0 6 7 3 4
- **28.** Option (1)



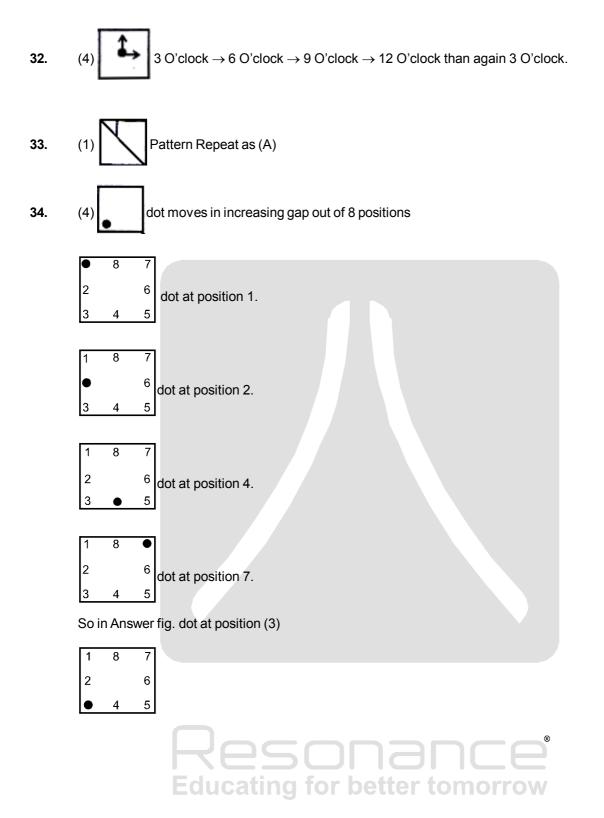




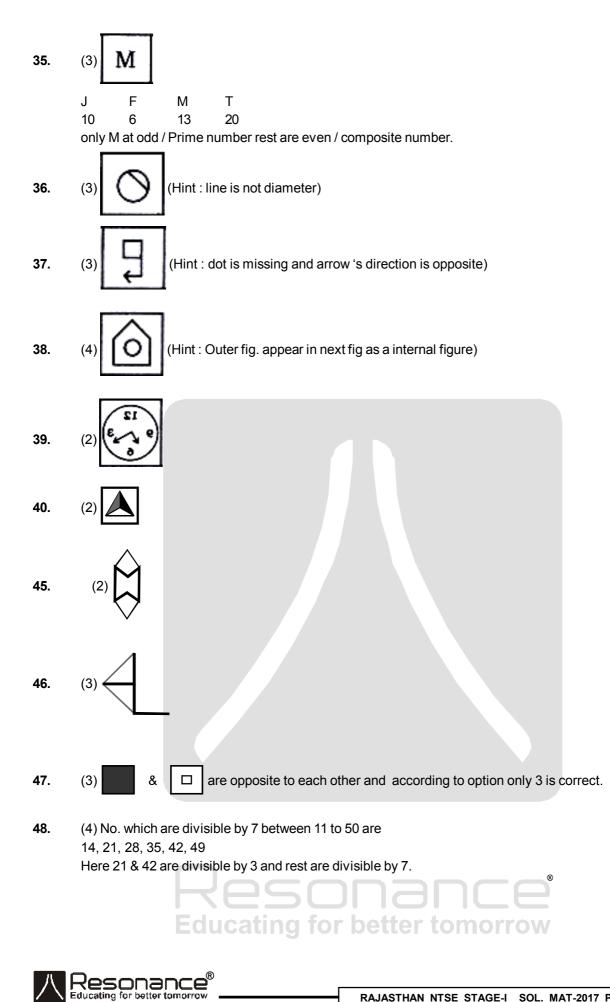
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31. (3)

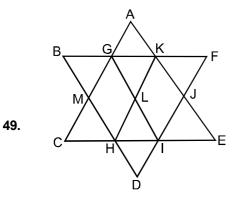
(Hint \rightarrow Horizontal Rings \rightarrow Verticle Rings alternate with increasing rings)



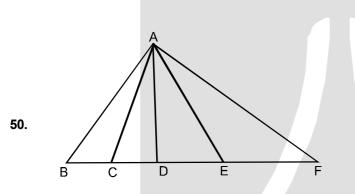




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Ans. (6) (1) AMHIJA (2) FGMHIF (3) EKGMHE (4) DMGKJD (5) CGKJIC (6) BHIJKB



Ans. (10) ABC, ACD, ADE, AEF, ABD, ACE, ADF, ABE, ACF, ABF.





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