

**NTSE Practice Paper -15**  
**Scholastic Aptitude Test (Mental Ability Test)**

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1. 3, 20, 63, 144, 275, ?
  - a. 354
  - b. 468 **(Ans.)**
  - c. 548
  - d. 554
2. 2, 3, 3, 5, 10, 13, ?, 43, 172, 177
  - a. 23
  - b. 38
  - c. 39 **(Ans.)**
  - d. 40
3. YEB, WFD, UHG, SKI, ?
  - a. QOL **(Ans.)**
  - b. QOL
  - c. TOL
  - d. QNL
4. Find the wrong term in the following sequence.  
OIT, J2R, N7P, P2IN, S88L, V445J
  - a. P21N
  - b. S88L
  - c. N7P **(Ans.)**
  - d. V445J

**Directions (Questions 5 to 7): In the following questions, there is a relationship between the two figures on the left of the sign (::). The same relationship exists between the figures to the right of the sign (::) of which one is missing. Find the missing one from the alternatives.**

5. 49 : 81 :: 64 : ?
  - a. 81
  - b. 36

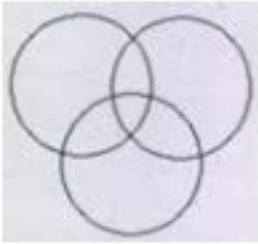
- c. 100 **(Ans.)**
  - d. 121
6.  $42:56 :: 110:?$
- a. 132 **(Ans.)**
  - b. 100
  - c. 121
  - d. 99
7. QDXM : SFWL :: UIOT : ?
- a. VKPU
  - b. TJQV
  - c. SGPU
  - d. WKNS **(Ans.)**

**Directions (Question 8 - 10):** In the following questions, four items (numbers/ number pairs/ letter groups) are given. Three of them are alike in a certain way and one is different. Find the odd one out from the alternatives.

8. a. 126
- b. 513
- c. 345 **(Ans.)**
- d. 730
9. a. 34-12 **(Ans.)**
- b. 43-30
- c. 52-21
- d. 63-19
10. a. DECB
- b. GDFE
- c. HKIJ
- d. JFHG **(Ans.)**

**Directions (Question 11 - 12):** In each of the following questions, patterns of circles are used to represent the relationship among different items. Each circle represents an item. Which one of these relationships among the items is not represented by the patterns of circles given in each question?

11.



- a. Oxygen, Air, Water. **(Ans.)**
- b. Maids, Women, Doctors
- c. Students, Boys, Players
- d. Musicians, Singers, Women

12.



- a. Fruits, Apples, Tomatoes
- b. Sea, Islands, Mountains
- c. Tigers, Carnivores, Elephants
- d. Fathers, Males, Doctors **(Ans.)**

13. If the word GERMINATION is coded as IMGRENNOAIT, how the word ESTABLISHED will be coded?

- a. BEATSLDEIHS
- b. BAETSLEDHIS
- c. BATESLDEIHS
- d. BAETSLDEIHS **(Ans.)**

14. If the word RUSTICATE is coded as QTTUIDBSD, how the word STATISTIC will be coded?

- a. RSBUJTUHB
- b. RSBUITUHB **(Ans.)**
- c. RSBUIRSJD
- d. TUBUITUMB

15. In a certain code language, the sentences written in Column I are coded as sentences written in Column II, but the sequence of words is different. Decode the sentences and find how will you write what you .like in coded language?

Column I	Column II
what was it	lee ra de

you go	mo nil
you like it	nil pom ra
she was sick	Tok lee fo

- nil ra lee
  - porn nil ra
  - pom ra lee
  - nil pom de **(Ans.)**
16. In a certain office,  $\frac{1}{3}$  of the workers are women,  $\frac{1}{2}$  of the women are married and  $\frac{1}{3}$  of the married women have Children. If  $\frac{3}{4}$  of the men are married and  $\frac{2}{3}$  of the married men have children, what part of the workers is without children?
- $\frac{5}{18}$
  - $\frac{4}{9}$
  - $\frac{11}{18}$  **(Ans.)**
  - $\frac{17}{36}$
17. In a queue, A is Eighteenth from the front while B is Sixteenth from the back. If C is Twenty Fifth from the front and exactly in the middle of A and B, then how many persons are there in the queue?
- 45
  - 46
  - 47 **(Ans.)**
  - 48
18. How many such pairs of digits are there in the number 531268947 each of which has as many digits between them in the number as when they are arranged in descending order?
- Two **(Ans.)**
  - Three
  - Four
  - Six
19. Arrange the given words in the sequence in which they occur in the English dictionary and then choose the correct sequence.
- Miniscule
  - Minimalis

3. Minority
4. Miniature
5. Ministerial
- a. 4, 2, 5, 1, 3
- b. 4, 2, 1, 3, 5
- c. 4, 2, 1, 5, 3 **(Ans.)**
- d. 4, 2, 3, 1, 5

**Directions (Question 20-21): Study the information given below and answer the questions that follow:**

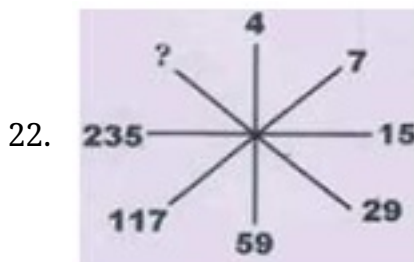
**A + B means A is Daughter of B;**

**A X B means A is Son of B;**

**and A - B means A is Wife of B.**

20. If  $T - S \times B - M$ , which of the following is not true?
  - a. B is the Mother of S
  - b. M is the Husband B
  - c. T is the Wife of S
  - d. S is the Daughter of M **(Ans.)**
21. If  $Z \times T - S \times U + P$ , How is U related to Z ?
  - a. Mother
  - b. Father
  - c. Grand mother **(Ans.)**
  - d. Daughter

**Directions (22-24): Find the missing character / number in each of the following questions:**



- a. 327
- b. 386

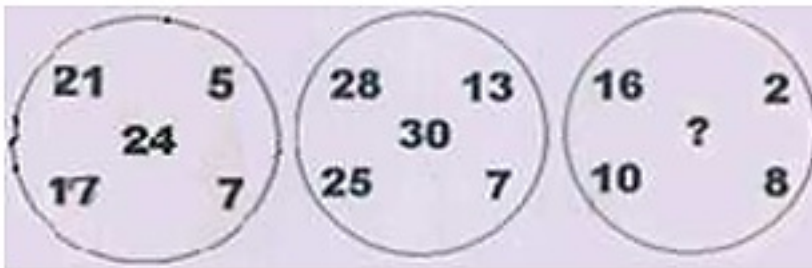
- c. 438
- d. 469 (Ans.)

23.

CK	16	9	JR
OS	24	19	TX
KM	?	?	PV

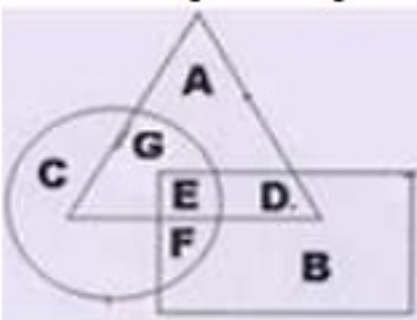
- a. 14, 21
- b. 21, 14
- c. 56, 84 (Ans.)
- d. 84, 56

24.



- a. 24
- b. 30 (Ans.)
- c. 36
- d. 40

**Directions (25-27): Study the diagram and answer the questions that follow.**



**The Triangle in the above figure depicts women in villages, the Rectangle depicts the unemployed women and the Circle depicts the educated women.**

25. Which region represents educated employed women in villages?
- a. D
  - b. E

- c. F
  - d. G **(Ans.)**
26. What does region D represent?
- a. Unemployed women in villages
  - b. Unemployed women in villages who are not educated **(Ans.)**
  - c. Educated unemployed women
  - d. Educated employed women
27. Which region represents educated unemployed women?
- a. B and C
  - b. D and E
  - c. E and F **(Ans.)**
  - d. G and E
28. A man walks 1 km towards East and then he turns to South and walks 5 km. Again he turns to East walks 2 km. After this he turns to North and walks 9 km. Now, how far is he from his starting point?
- a. 3 km
  - b. 4 km
  - c. 5 km **(Ans.)**
  - d. 7 km

**Directions Q (29 - 31): Study the information given below and answer the questions that follow:**

**In a building, there are thirteen flats on three floors - II, III and IV, Five flats are unoccupied. Three managers, two teachers, two lawyers and one doctor occupy the remaining flats, there are at least three flats on any floor and not more than six flats on any floor. No two person of the same profession stay on any floor. On the II floor, out of four flats, one occupant is the lawyer and he has only one neighbor. One lawyer lives one floor below the other. The doctor is not the neighbor of any of the lawyers. No flat is unoccupied on the III floor.**

29. How many flats are occupied on the IV floor?
- a. Two
  - b. Three **(Ans.)**
  - c. Four

d. Five

30. How many flats are there on the III floor?

a. Three **(Ans.)**

b. Four

c. Three or Four

d. Five

31. What is the combination of occupants on the II floor?

a. Lawyer, Teacher

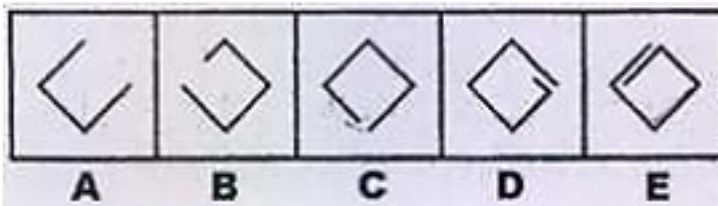
b. Manager, Teacher

c. Manger, Doctor

d. Lawyer, Manager **(Ans.)**

**Directions Q (32-33):** The five figures marked as A, B, C, D & E in the following questions follow a series. Select a figure from the given alternatives marked as a, b, c, d which will continue the same series.

32.



a.



b.



**(Ans.)**

c.

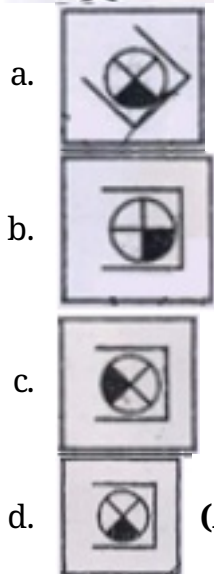


d.





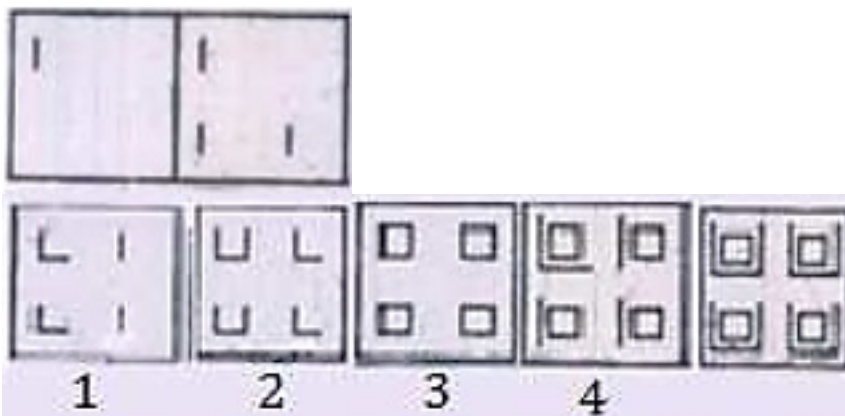
33.



(Ans.)

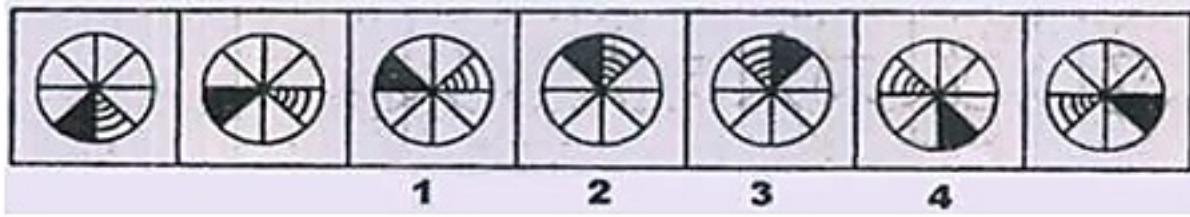
**Directions Q (34- 35):** In the following questions, find the one that does not fit into the series established by the seven figures given.

34.



- a. 1
- b. 2
- c. 3
- d. 4 (Ans.)

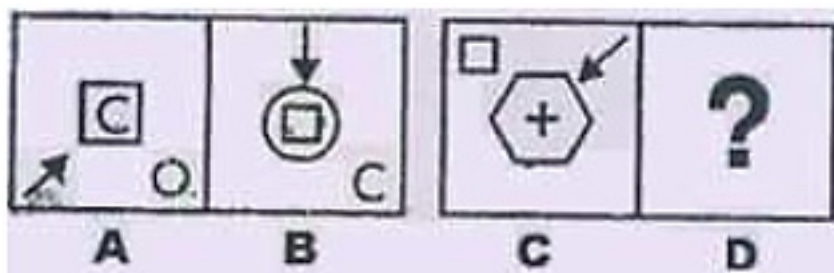
35.



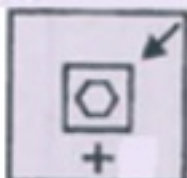
- a. 1
- b. 2
- c. 3
- d. 4 (Ans.)

**Directions Q (36- 37):** In each of the following questions, there is a relationship between the figures A & B. Establish a similar relationship between C & D by choosing a suitable figure from the answer set 1, 2, 3 & 4 for the missing figure.

36.



a.



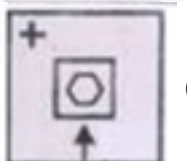
b.



c.

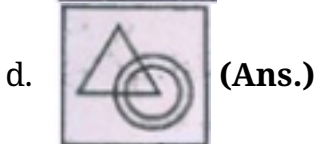
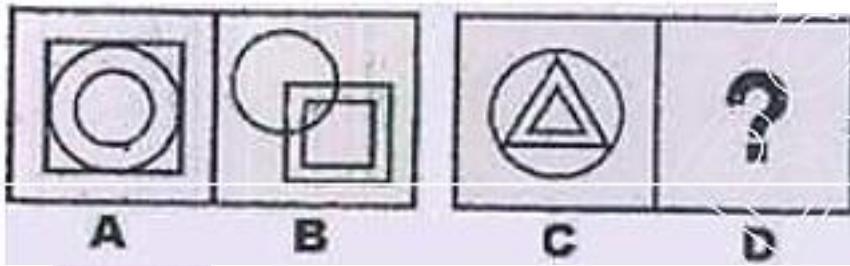


d.



(Ans.)

37.



(Ans.)

**Directions Q (38- 40):** In each of the following questions, four figures are given. Three of them are similar in certain manner. Find the odd one.

38. a.



b.

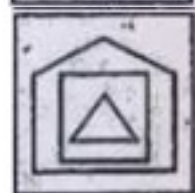


c.

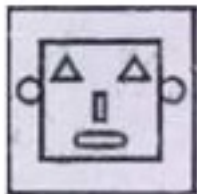


(Ans.)

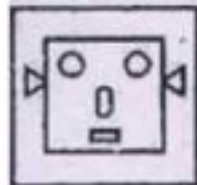
d.



39. a.



b.



c.



(Ans.)

d.



40. a.



(Ans.)

b.



c.

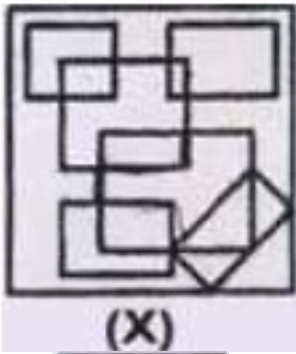


d.



**Directions Q (41): In the following question, find out which one of the following figures. a, b, c & d, is embedded in the figure X?**

41.



a.



(Ans.)

b.



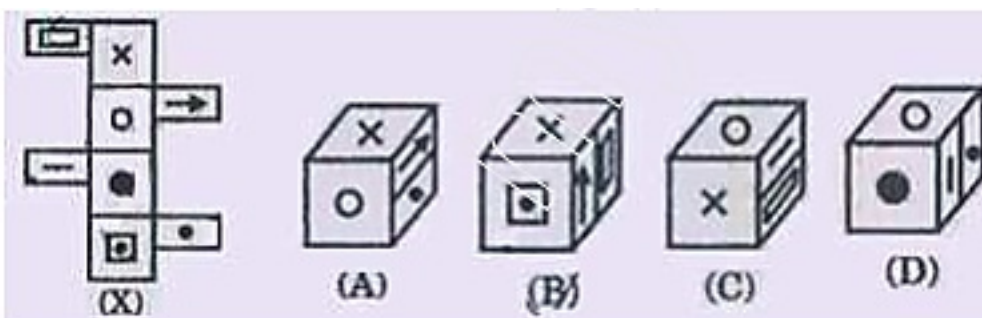
c.



d.



42. Select from the alternatives A, B, C and D, the cube that can be formed by folding the sheet shown in X



a. A and B only

b. A and C only (Ans.)

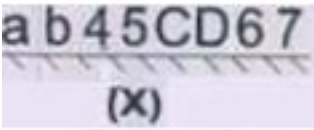
c. C and D only

d. A, B, C and D

**Directions Q (43 - 44):** In each of the following questions, choose the correct mirror image of the figure X from the alternatives 1, 2, 3, & 4 given along with it. The mirror is

shown along the figure X.

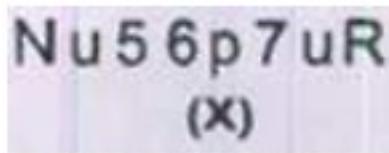
43.



- a. a p 4 2 C D e 1
- b. 9 p 4 2 C D e 1
- c. 6 p 4 2 C D 9 1
- d. 9 p 4 2 C D e 1

(Ans.)

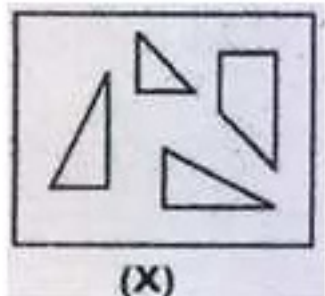
44.



- a. N u 5 6 p 7 u R
- b. R n 7 q 8 3 u N
- c. R u 7 q 8 3 u N
- d. N u 5 6 p 7 u R

(Ans.)

45. Find out which of the figures 1, 2, 3 and 4 can be formed from pieces given in figure X?



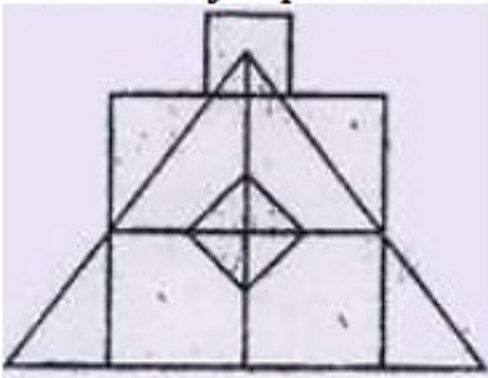
- a.
- b.
- c.

(Ans.)

d.



46. How many squares and triangles are there?



- a. 7, 18
- b. 8, 18
- c. 7, 21 (Ans.)
- d. 8, 21

**Directions Q (47 - 50): Study the information given below and answer the questions that follow:**

**A bag contains coins of four different denominations, viz 1 rupee, 50 paise and 10 paise. There are as many 50 paise coins as the value of 25 paise coins in rupees. The value of 1 rupee coins is 5 times the value of 50 paise coins. The ration of 10 paise coins to that of 1 rupee coins is 4:3, while the total number of coins in the bag is 325.**

47. How many 10 paise coins are there in the bag?

- a. 25
- b. 50
- c. 75
- d. 100 (Ans.)

48. What is the value of 50 paise coins?

- a. Rs 10
- b. Rs 15 (Ans.)
- c. Rs 20
- d. Rs 30

49. What is the ratio of 50 paise coins to 25 paise coins?

a. 1:4 **(Ans.)**

b. 2:5

c. 2:32

d. 1:3

50. What is the total value of coins in the bag?

a. Rs 130 **(Ans.)**

b. Rs 140

c. Rs 150

d. Rs 160