NTSE Practice Paper -08

Scholastic Aptitude Test (Mental Ability Test)

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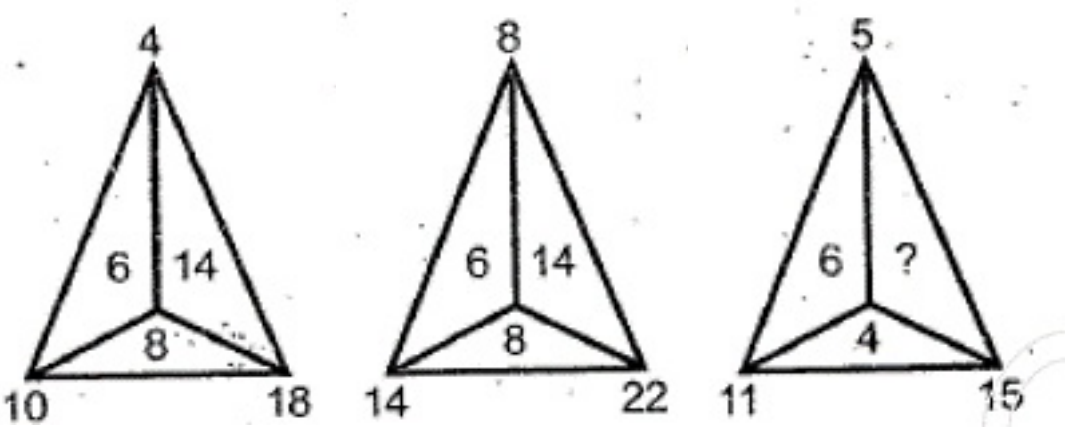
1. If “ka bi pu ya” means “you are very industrious”, “ya lo ka wo” means “they seem very industrious”, “la pu le” means “you can see”, “sun pun yun ya” means “how industrious she is”, then which word could mean “industrious”?
   a. ka
   b. wo
   c. ya **(Ans.)**
   d. pun
2. If “mink yang pe” means “fruits are ripe”, “pe lao rhay mink” means “oranges are not ripe”, “may pe nue mink” means “mangoes are not ripe”, then which word could mean “mangoes”?
   a. may
   b. pe
   c. nue **(Ans.)**
   d. mink
3. If “platideer” means “yellow hat” “leptodeer” means “yellow stick”, “leptocat” means “woodstick”, then which word could mean “yellow wood”?
   a. leptocat
   b. catdeer **(Ans.)**
   c. leptodeer
   d. platicat

(Q. No. 4-6): Fill in the blanks from the alternatives looking at both the letter and number pattern’s

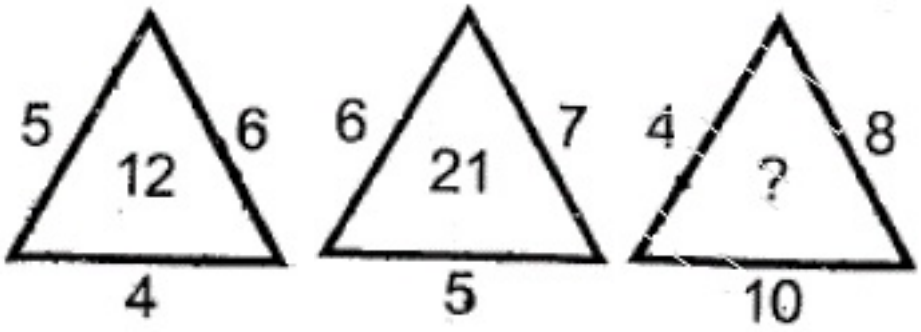
4. $ZA_5, Y_4B, XC_6, W_3D,$ _____
   a. E_7V
   b. V_2E
   c. VE_5
   d. VE_7 **(Ans.)**

5. $P_3QR, P_4QS, P_3QT, _____, P_1QV$
   a. PQW
   b. PQV_7
   c. PQU_2 **(Ans.)**
   d. PQU_3
6. $DEF, DEF_2, DE_2F_2, _____, D_2E_2F_3$
   a. DEF_3
   b. D_3EF_3
   c. D_3E_3F
   d. $D_2E_2F_2$ **(Ans.)**

(Q. No. 7-9): Choose the correct alternative which will replace the question mark?

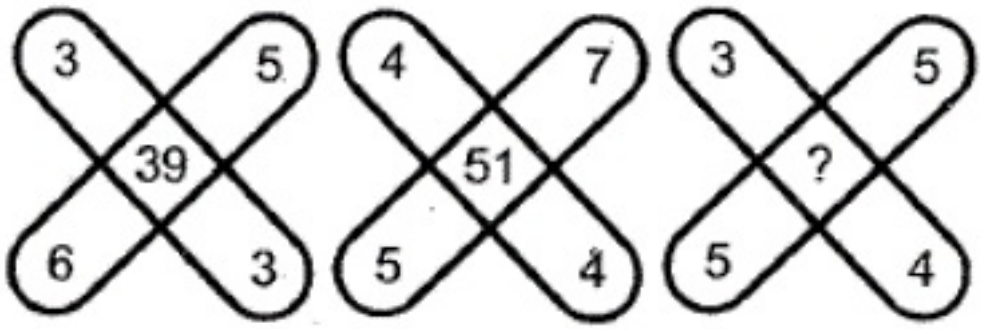
7. 

   a. 10 **(Ans.)**
   b. 14
   c. 8
   d. 6

8. 

   a. 14

b. 22
c. 320
d. 32 **(Ans.)**

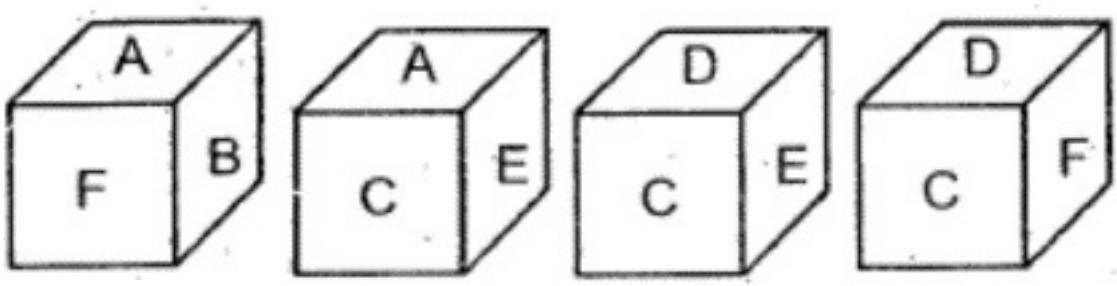
9. 

a. 37 **(Ans.)**
b. 45
c. 47
d. 35

(Q. No. 10-12): The questions from 10 to 12 are based pm the following information. The opposite faces of a big cube are colored with red, black and green. After that it is cut into 64 small equal cubes.

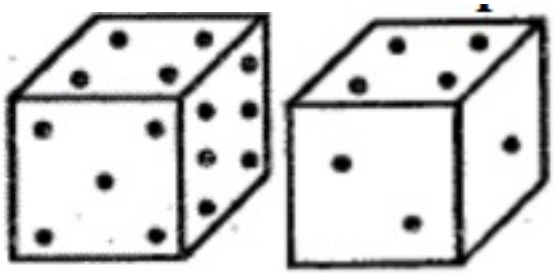
10. How many small cubes are there where one face is green and other one is either black or red?
    a. 28
    b. 16 **(Ans.)**
    c. 8
    d. 24
11. How many cubes are there which have no coloured faces?
    a. 0
    b. 4
    c. 8 **(Ans.)**
    d. 16
12. How many small cubes are there whose 3 faces are coloured?
    a. 4
    b. 8 **(Ans.)**
    c. 16
    d. 24

13. From the four positions of a cube shown below, which letter will be on the face opposite to face with ‘A’?



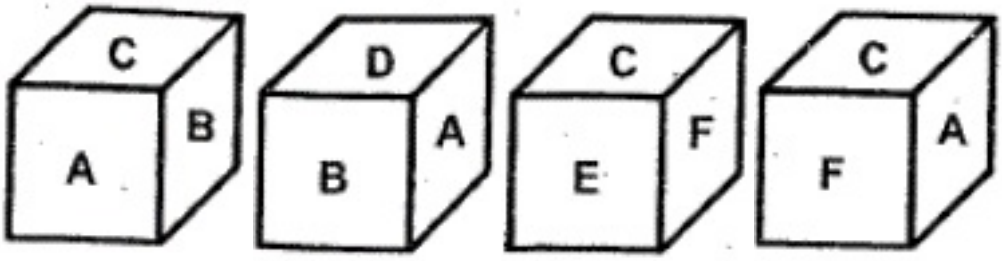
a. D **(Ans.)**
b. B
c. C
d. F

14. Two positions of a die are shown. If there are two dots in the bottom, then how many dots will be on the opposite top?



a. 2
b. 3
c. 6
d. 5 **(Ans.)**

15. Four positions of a cube are shown below. Which letter will be opposite to ‘F’?



a. C
b. D
c. B **(Ans.)**
d. E

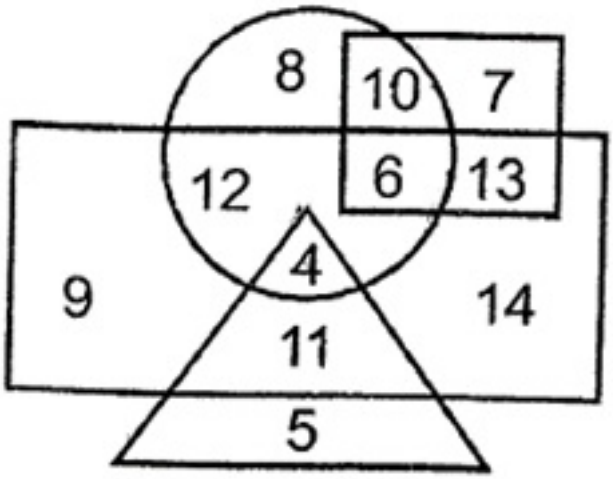
(Q. No. 16 and 17): A is the son of B. C, B's sister has a son D and a daughter E. F is the maternal uncle of D.

16. How is A related to D?
    a. Nephew
    b. Cousin **(Ans.)**
    c. Uncle
    d. Brother
17. How many nephews does F have
    a. Nil
    b. Three
    c. Two **(Ans.)**
    d. One

(Q. No. 18 and 19): The sum of the income of M and N is more than that of P and Q taken together.
The sum of the income of M and P is the same as that of N and Q taken together. M earns half as much as the sum of the income of N and Q.

18. Which of the following statement is not correct?
    a. N earns more than P
    b. N earns more than Q
    c. P earns more than Q
    d. M earns more than N **(Ans.)**
19. Whose income is the highest?
    a. M
    b. P
    c. N **(Ans.)**
    d. Q
20. If 1000 cats kill 1000 mice in 1000 days, then in how many days 10 cats would kill 10 mice?
    a. 1000 **(Ans.)**
    b. 100
    c. 10
    d. 1

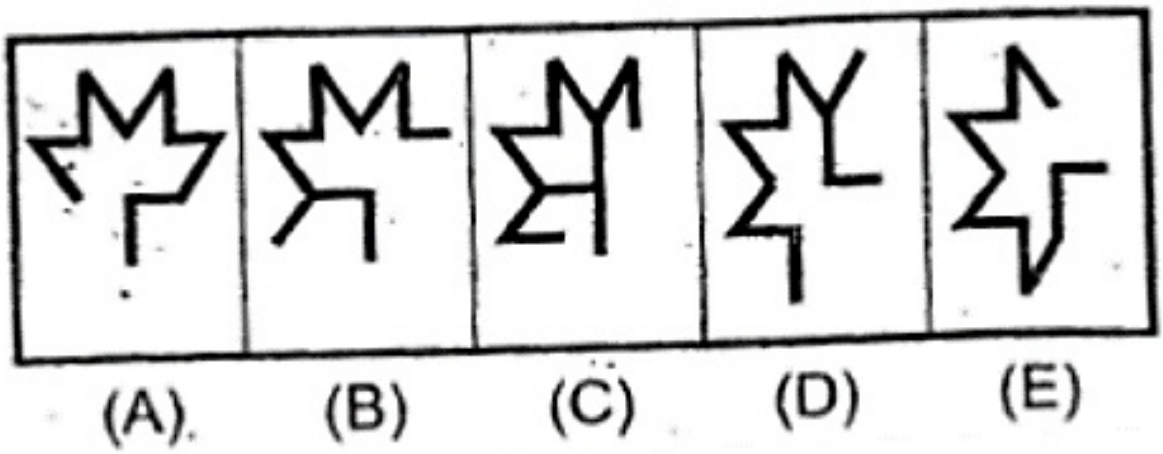
(Q. No. 21-22): In the following diagram rectangle represents men, triangle represents educated, circle represents urban and square represents government employees. Accordingly answer questions from 21 to 22.



21. Which one of the following represents the educated men but not urban?
    a. 9
    b. 5
    c. 4
    d. 11 **(Ans.)**
22. Which one of the following represents a woman who is urban as well as government employee?
    a. 7
    b. 13
    c. 10
    d. 6 **(Ans.)**

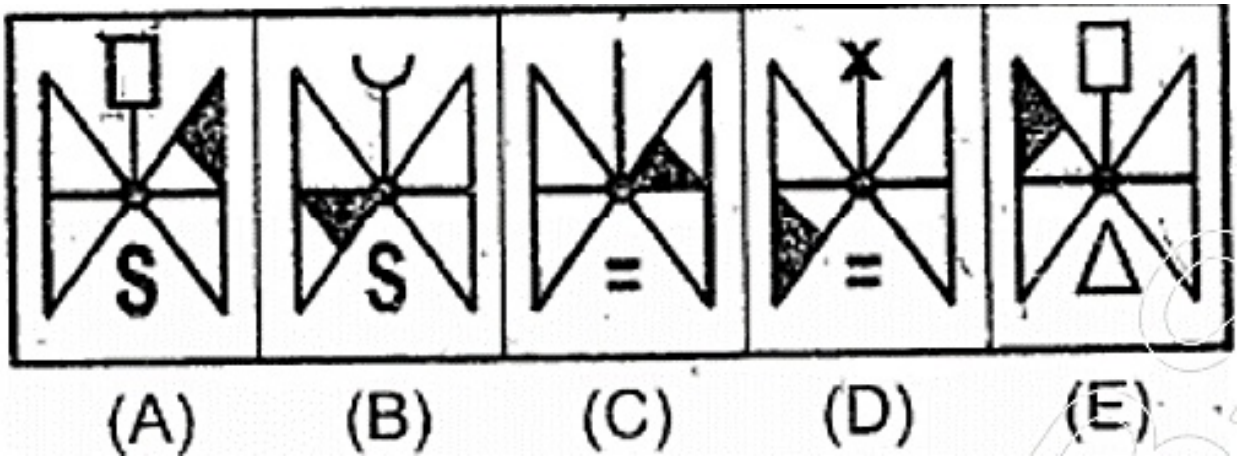
(Q. No. 23-26): Select a figure from amongst the Answer figures which will continue the same series as established by the five Problem figures.

23. Problem figures:



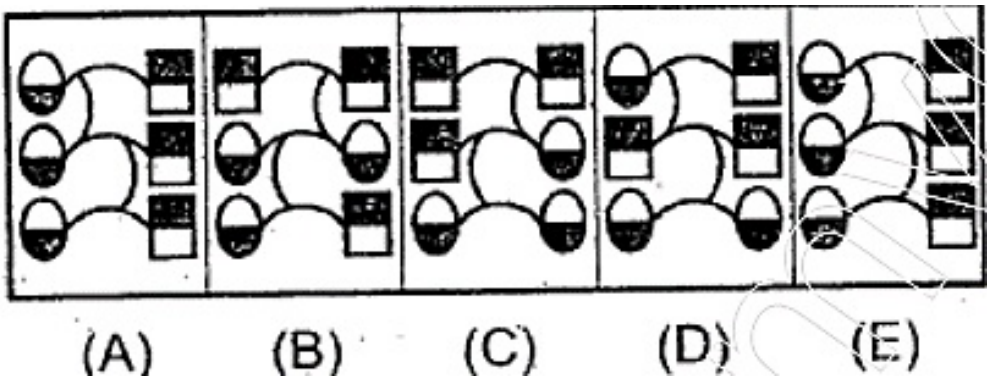
a. 1
b. 2
c. 3 **(Ans.)**
d. 4

24. Problem figures:



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

25. Problem figures:



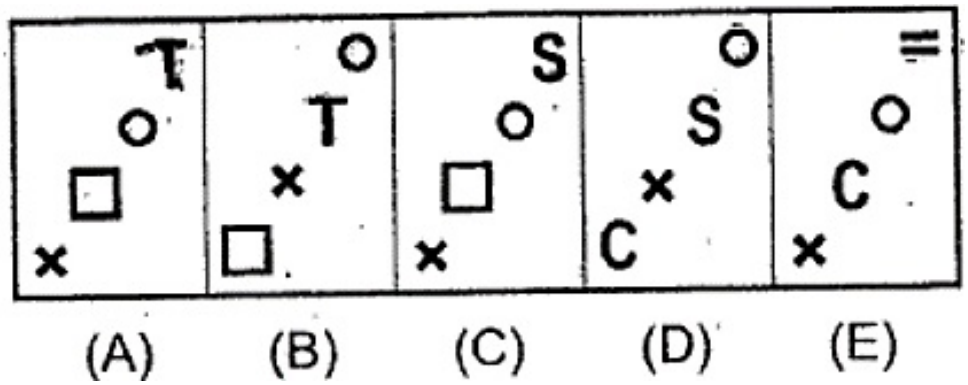
a. 1 **(Ans.)**

b. 2

c. 3

d. 4

26. Problem figures:



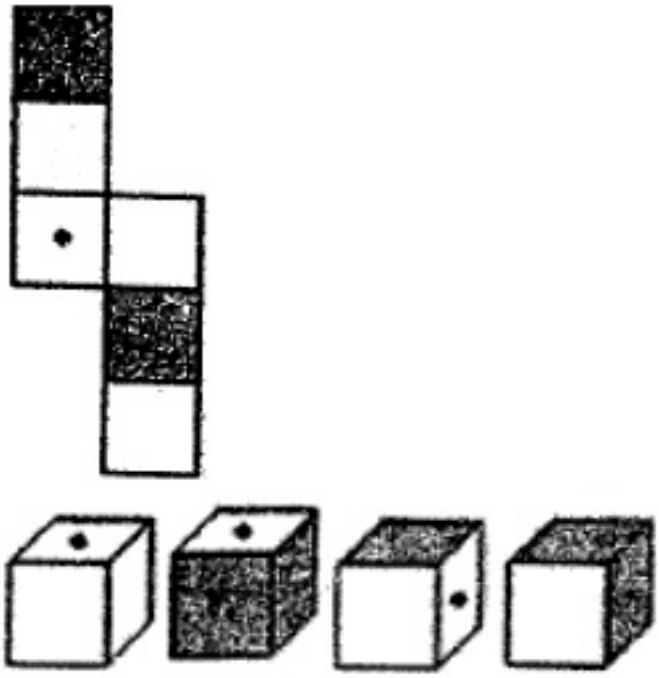
a. 1

b. 2

c. 3 **(Ans.)**

d. 4

27. The left hand side figures is folded to form a box. Choose from the boxes (1), (2), (3) and (4), that are similar to the box formed.



a. (2) and (3) only

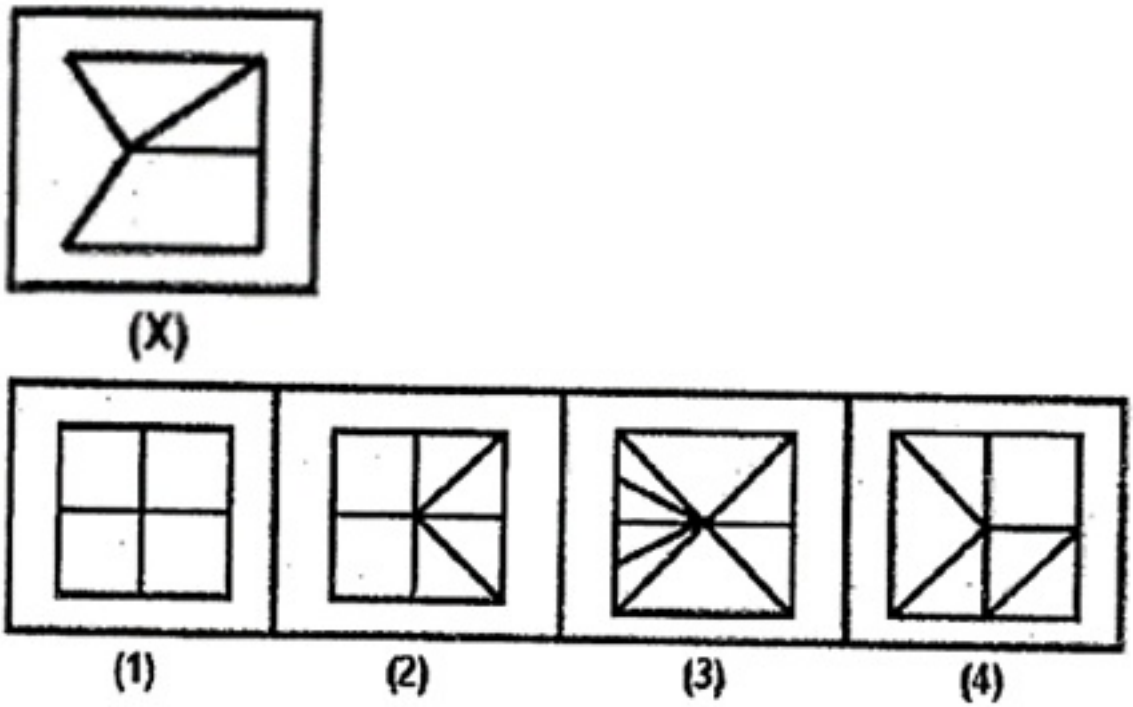
b. (1), (3) and (4) only **(Ans.)**

c. (2) and (4) only

d. (1) and (4)

(Q. No. 28-30): Find out the alternative figure from 1, 2, 3 and 4 which contains figure (X) as its part.

28.



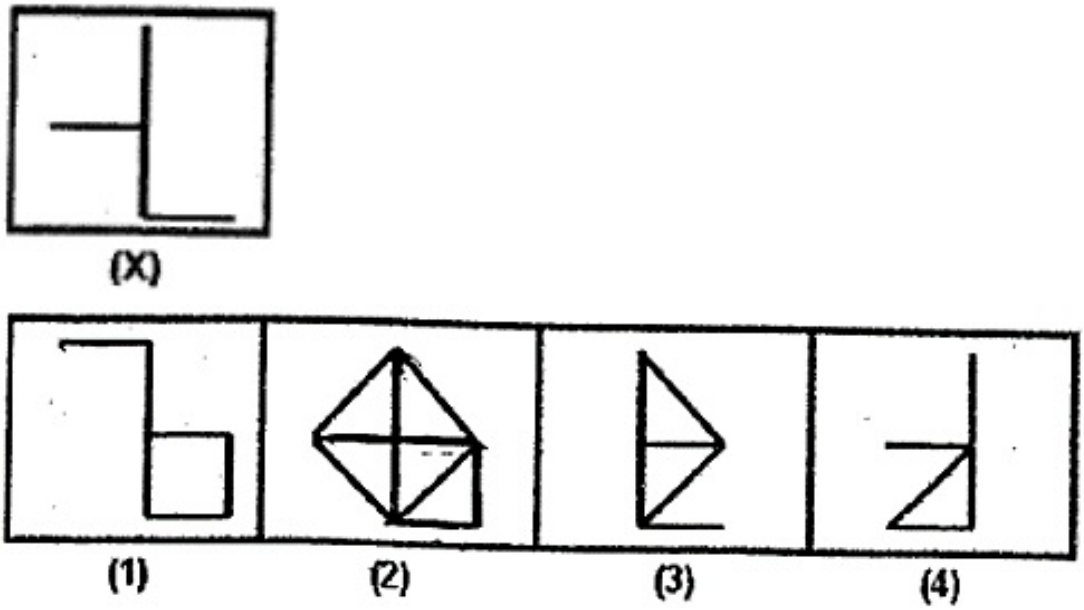
a. 1

b. 2

c. 3 **(Ans.)**

d. 4

29.

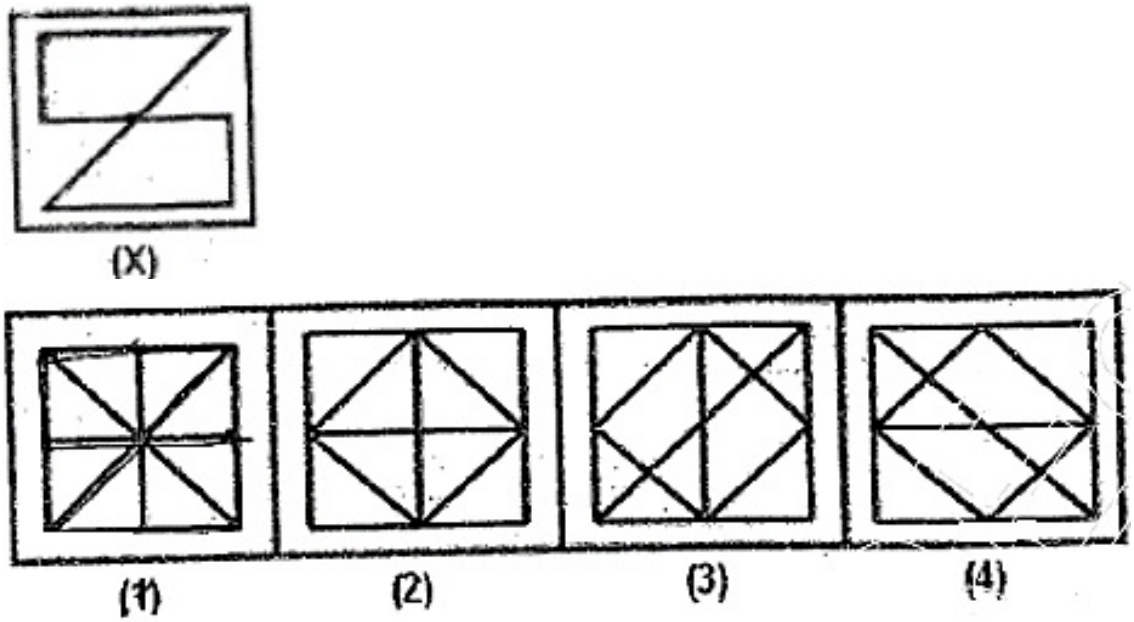


a. 1

b. 3

c. 4

d. 2 **(Ans.)**

30. 

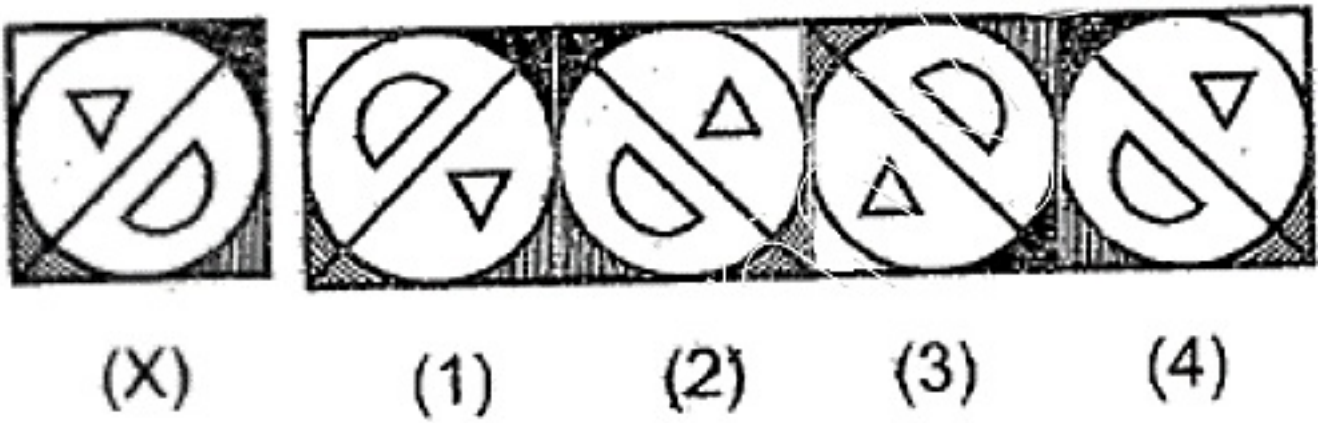
a. 1 **(Ans.)**

b. 4

c. 3

d. 2

(Q. No. 31-33): Choose the correct mirror image of the given figure (X) from amongst the four alternatives.

31. 

a. 1

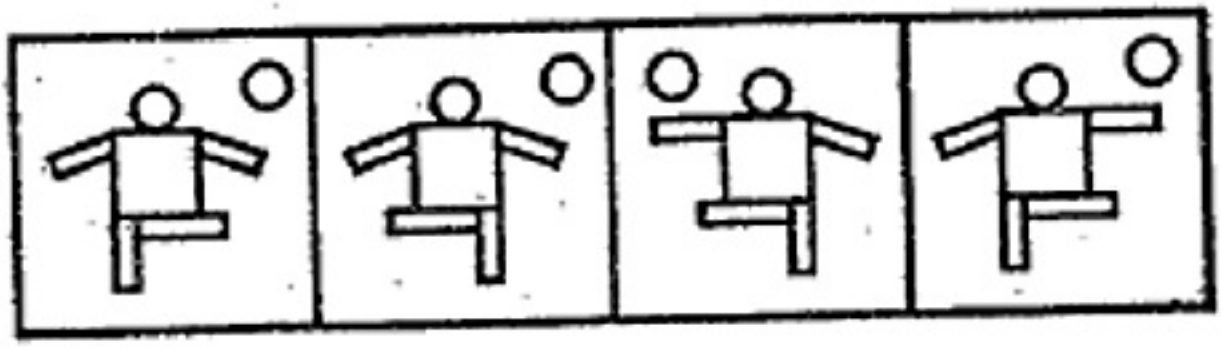
b. 2

c. 3

d. 4 **(Ans.)**

32.

(X)

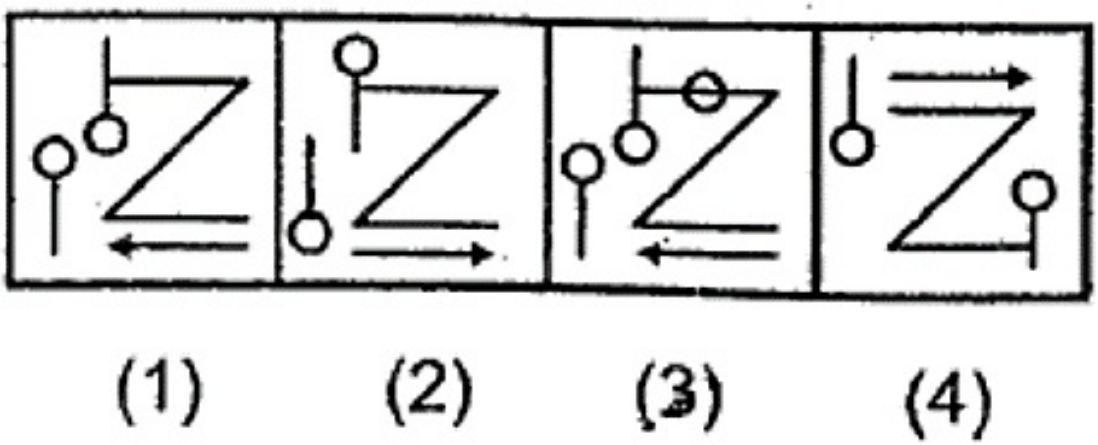


(1) (2) (3) (4)

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

33.

(X)



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

34. If P + Q = R + S and P + S > Q + R, then which one of the following is definitely right?
    a. Q>S
    b. P>Q
    c. P>R **(Ans.)**
    d. R>S
35. Which of the following numbers is completely divisible by $(2^{23}+1)$?
    a. $(2^{16}+1)$
    b. $(2^{16}-1)$
    c. (7×2^{23})
    d. $(2^{96}+1)$ **(Ans.)**
36. What will be remainder when $(67^{67}+67)$ is divisible by 68?
    a. 1
    b. 63
    c. 66 **(Ans.)**
    d. 67
37. If A $ B means A is the brother of B; A B means A is the wife of B; A # B means A is the daughter of B and A * B means A is the father of B, which of the following indicates that U is the father-in-law of P?
    a. P @ Q $ T # U * W **(Ans.)**
    b. P @ W $ Q * T # U

c. P @ Q $ W * T # U
d. P @ Q $ T # W * U

38. A 3 P means A is the mother of P.
A 4 P means A is the brother of P.
A 9 P means A is the husband of P.
A 5 P means A is the daughter of P.
Which of the following means that K is the mother-in-law of M?
a. M9N3K4J
b. M9N5K3J **(Ans.)**
c. K5J9M3N
d. K3J9N4M

(Q. No. 39-41):
A, B, C, D, E and F are six students in a class.
B and C are shorter than F but heavier than A.
D is heavier than B and taller than C.
E is shorter than D but taller than F.
F is heavier than D.
A is shorter than E but taller than F.

39. Who is tallest?
a. A
b. B
c. D **(Ans.)**
d. E
40. Who is the lightest?
a. Data inadequate **(Ans.)**
b. A
c. B
d. C or D
41. Who is third from the top when they are arranged in descending order of heights?
a. B
b. C
c. E

d. A **(Ans.)**

(Q. No. 42-44): In questions 42 to 44, three of the alternatives share a common similarity while one is different. Choose the odd one out.

42.

a. HSRI
b. MVUN
c. OLKP
d. PJQX **(Ans.)**

43.

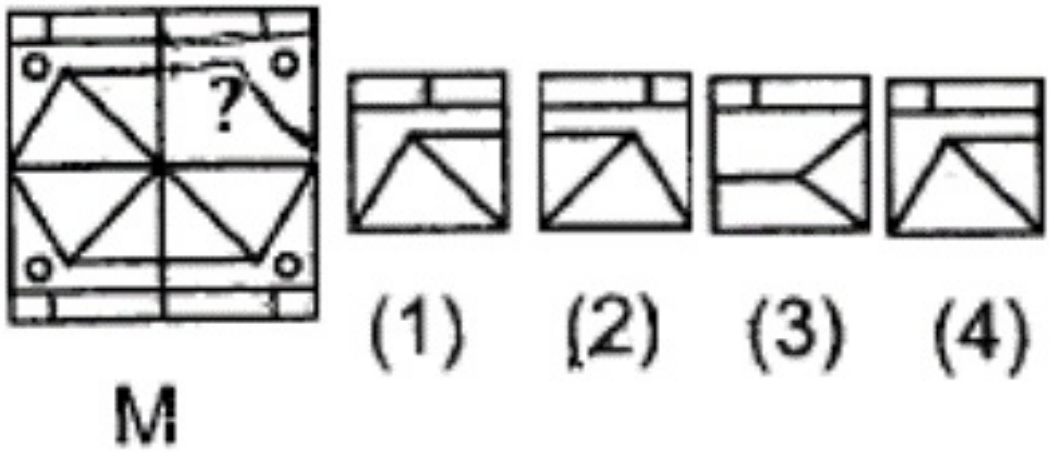
a. YDWB
b. TKRI
c. QNOM **(Ans.)**
d. HLF

44.

a. BdEg
b. KmNp
c. PrSu
d. TwXz **(Ans.)**

(Q. No. 45-47):
Which figure from the alternatives completes the pattern 'M' when put in the '?' marked space?

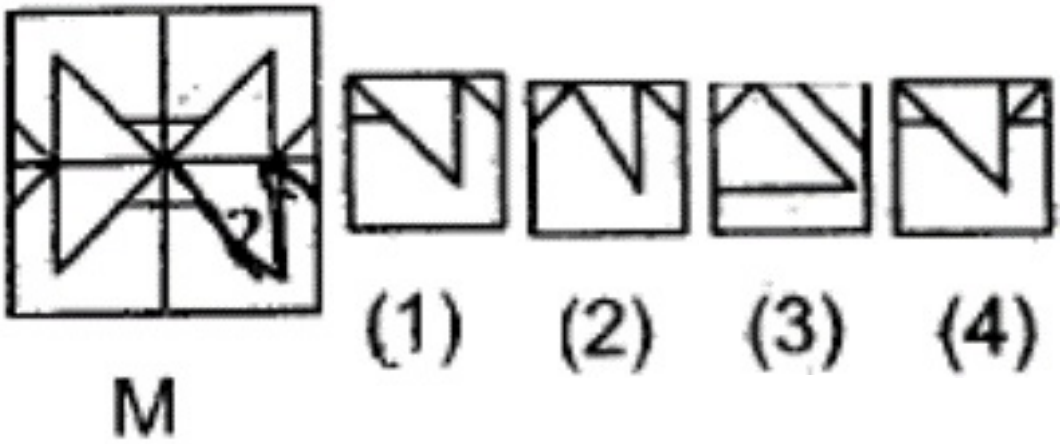
45.



a. 1
b. 2 **(Ans.)**

c. 3

d. 4

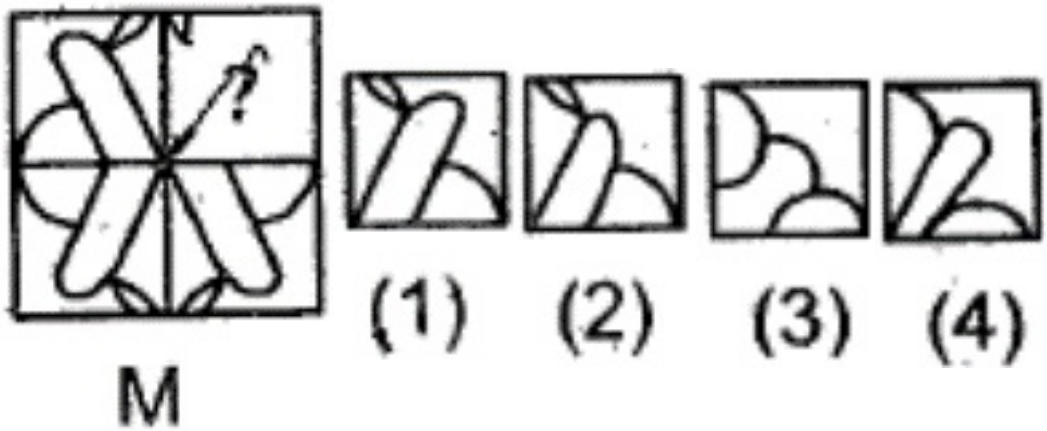
46. 

a. 1 **(Ans.)**

b. 2

c. 3

d. 4

47. 

a. 1 **(Ans.)**

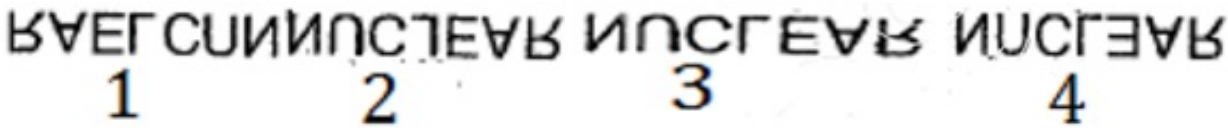
b. 2

c. 3

d. 4

(Q. No. 48-50): Choose the alternative which most closely resembles the water image of the given closely resembles the water image of the given combination.

48. NUCLEAR



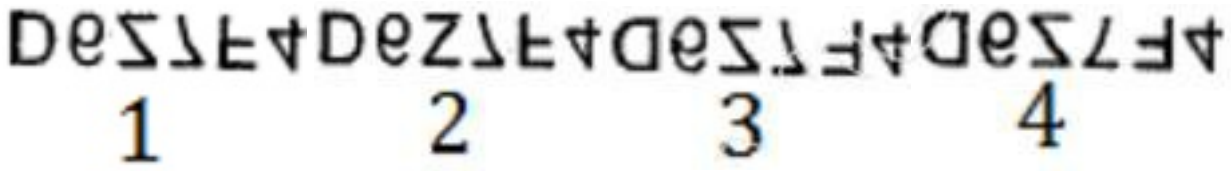
a. 1

b. 2

c. 3 **(Ans.)**

d. 4

49. D6Z7F4



a. 1 **(Ans.)**

b. 2

c. 3

d. 4

50. FAMILY

a. 1

b. 2 **(Ans.)**

c. 3

d. 4