

qwertyuiopasdfghjklzxcvbnmqwerty
uiopasdfghjklzxcvbnmqwertyuiopasd
fghjklzxcvbnmqwertyuiopasdfghjklzx
cvbnmq
wertyui
opasdfg
hijklzxcv
vbnmqwertyuiopasdfghjklzxcvbnmq
wertyuiopasdfghjklzxcvbnmqwertyui
opasdfghjklzxcvbnmqwertyuiopasdfg
hijklzxcvbnmqwertyuiopasdfghjklzxc
vbnmqwertyuiopasdfghjklzxcvbnmq
wertyuiopasdfghjklzxcvbnmqwertyui
opasdfghjklzxcvbnmqwertyuiopasdfg
hijklzxcvbnmrtyuiopasdfghjklzxcvbn
mqwertyuiopasdfghjklzxcvbnmqwert
yuiopasdfghjklzxcvbnmqwertyuiopas

NTSE 2014-15 Maharashtra

First Stage GMAT Paper

2 November 2014

Aryan Classes

NATIONAL TALENT SEARCH EXAMINATION, 2014-15

STATE LEVEL EXAMINATION – QUESTION BOOKLET

**GENERAL MENTAL ABILITY
TEST**

CLASS – X

MEDIUM: - ENGLISH

DATE: 2 NOVEMBER 2014, DAY: SUNDAY

[Time: - 10:30 A.M. to 11:15 A.M.]

Maximum Marks: 50

Time: 45 Minutes

Q. 1 to 4. Directions:- In each of the following questions there is a specific relationship between the first and second term.

The same relationship exists between the third and fourth term which will replace the question mark (?). Select the correct term from the alternatives given:

1. 23 : 8 :: 25 : ?

- (1) 32 (2) 9
(3) 64 (4) 22

2. 531 : 99 :: ? : ?

- (1) 451 : 55 (2) 321 : 44
(3) 642 : 66 (4) 212 : 11

3. BYCW : LOKQ :: ? : JQIS

- (1) FUEW
(2) DWFU
(3) DWEU
(4) DVFU

4. ACG : ZXT :: HJN : ?

- (1) SQM
(2) TRN
(3) SQN
(4) SOM

Q. 5 to 8. Directions:- Write which number or alphabet in sequence replaces the question mark (?).

5. 7, 15, 32, 67, 138, ?

- (1) 193
(2) 209
(3) 278
(4) 281

6. 3, 14, 54, 159, 314, ?

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(1) 309

(2) 372

(3) 391

(4) 398

7. AYC, DVF, GSI, ?

(1) KOM

(2) JRH

(3) JPL

(4) IQK

8. ABY, DCX, EFU, HGT, IJQ, ?

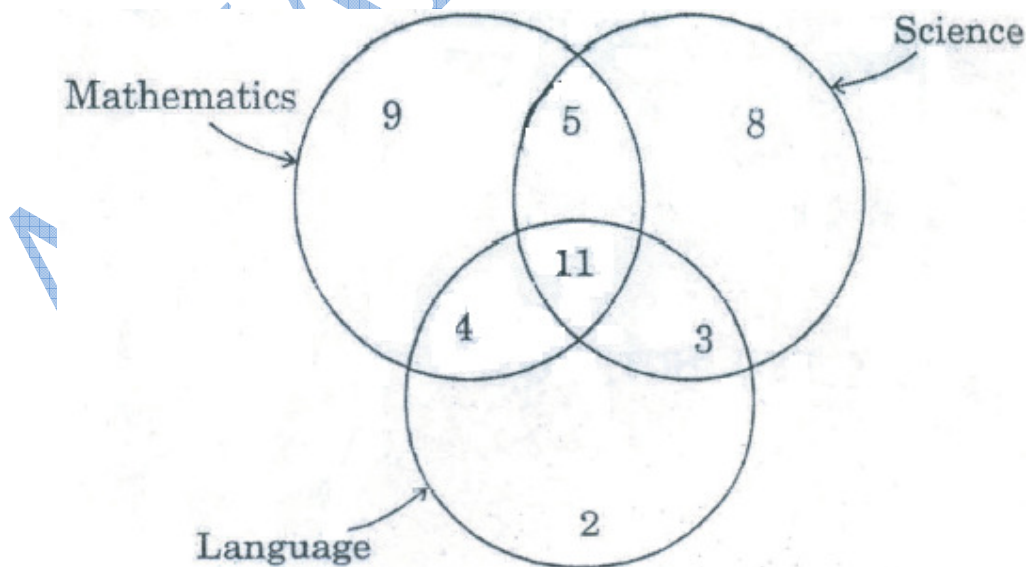
(1) LKP

(2) KLO

(3) LOP

(4) MLO

Q. 9 and 10. Directions :- In the following Venn Diagram the number of students who likes Science, Mathematics and Language is given. Observe the figure and answer the following questions:



9. Find the number of students who likes Mathematics but not Language.

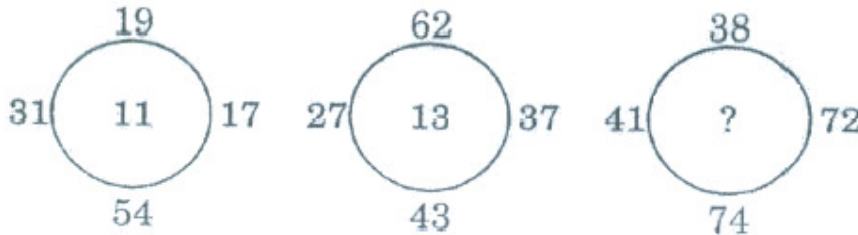
- (1) 15 (2) 14
(3) 11 (4) 10

10. How many students, who like and Mathematics do not like Language ?

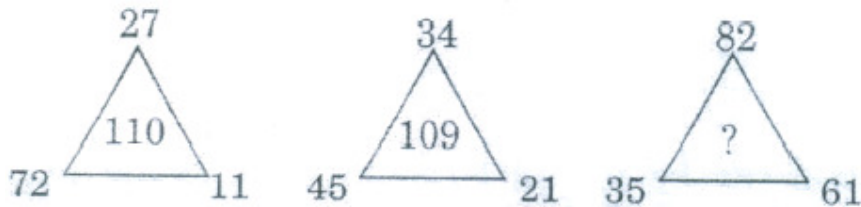
- (1) 4 (2) 8
(3) 11 (4) 5

Q.11 and 12. Directions :- Find the correct alternative which will replace the question mark (?).

11.



12.



Q. 13 and 14. Directions :- The information about the students wearing T-shirts having numbers 7, 8, 9 and 10 is given below. Read the given information and answer the following questions.

- i) The players having number 7 and 9 play football as well as Cricket.
(ii) The fat player having number 8 participates in all the games except Kho-Kho and Football.
(iii) The player carrying number 9 is very short. He is expert in Kabaddi. The player having number 10 is very slim. He participates in all the games except Football.
(iv) The player having number 7 is very tall .

13. Which game can be played by one and only one player ? .

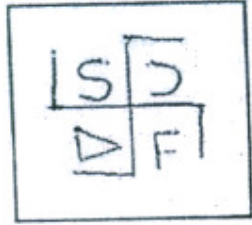
- (1) Kabaddi (2) Kho-Kho
(3) Cricket (4) Football

14. Name the game, which is played by the slim player but cannot be played by the fat player ?

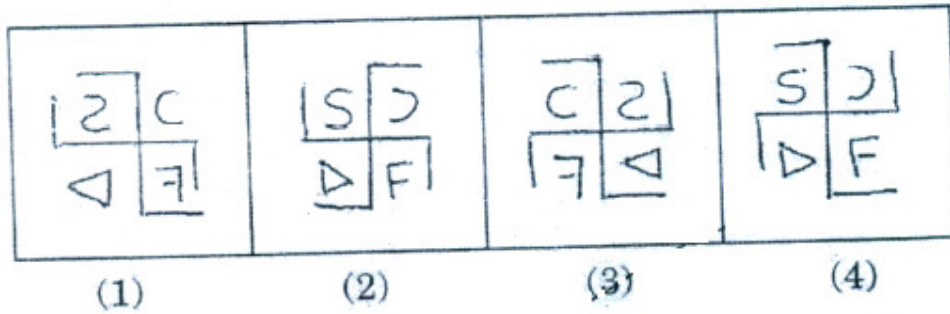
- (1) Cricket (2) Football
(3) Kho-Kho (4) Kabaddi

15. Directions-Choose the mirror image of the 'Question Figure' from the given alternatives.

Question Figure :



Answer Figures :



16. Directions-Choose the water image of the Question Figure' from the given alternatives.

Question Figure :



Answer Figures :



(1)

(2)

(3)

(4)

17. Directions-The number given in the bracket, has specific relationship with the numbers outside the bracket. Find the relationship and replace the question mark from the alternatives given below.

45 (13) 72
32 (11) 56
63 (?) 28

(1) 10

(2) 12

(3) 13

(4) 14

18. Directions-In the following table replace the question mark(?) from the alternatives given below:

7	2	53
3	6	45
5	4	?

(1) 39

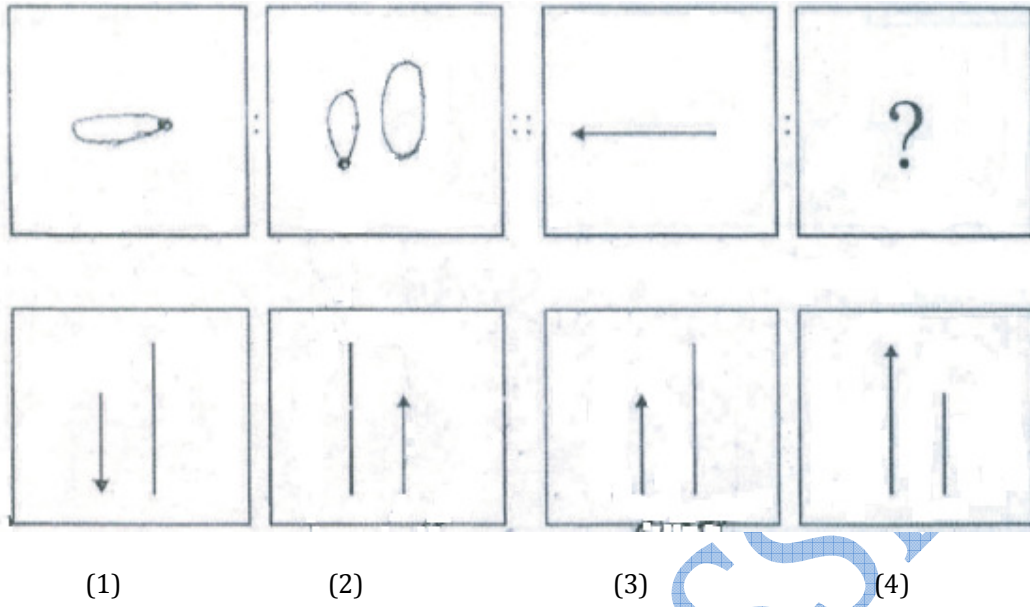
(2) 41

(3) 51

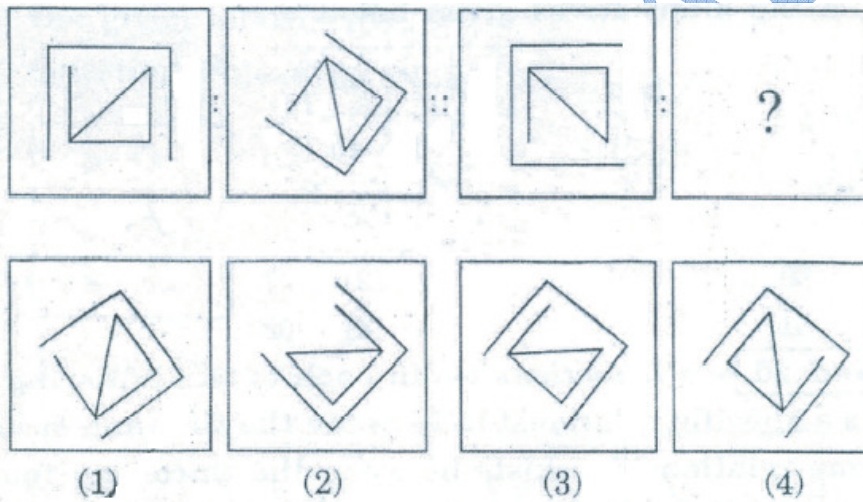
(4) 63

Q. 19 and 20. Directions :- In each of the following questions there is a specific relationship between the first and second figure. The same relationship exists between the third and fourth figure which will replace the question mark (?). Select the correct figure. from the alternatives given.

19.



20.



Q. 21. and 22. Directions :- Find the odd term out.

21. (1) 336 (2) 508
(3) 504 (4) 720

22. (1) 431 (2) 621
(3) 981 (4) 241

23. Directions-In the following questions a-specific group is given. From the given alternatives, find out the right term which matches the given group.

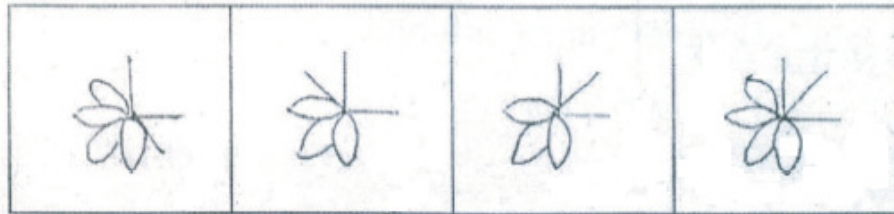
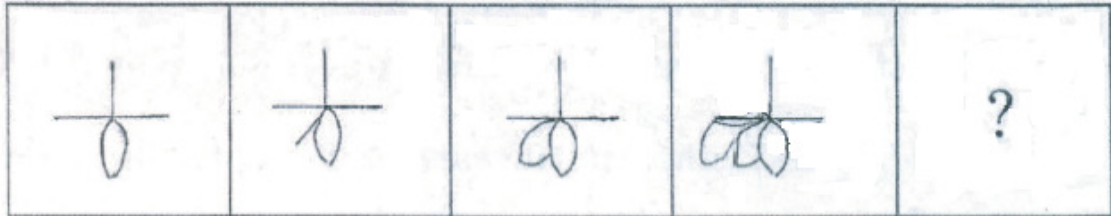
FKR, KPW, DIP

(1) JNU (2) CHO

(3) BGM (4) GMU

Q24. And 25. Directions :- In each of the following question figures change in a particular order. Find out the correct figure from the alternatives which will replace the question mark (?).

24.



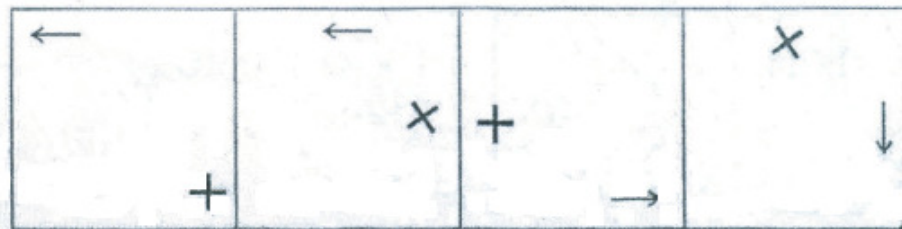
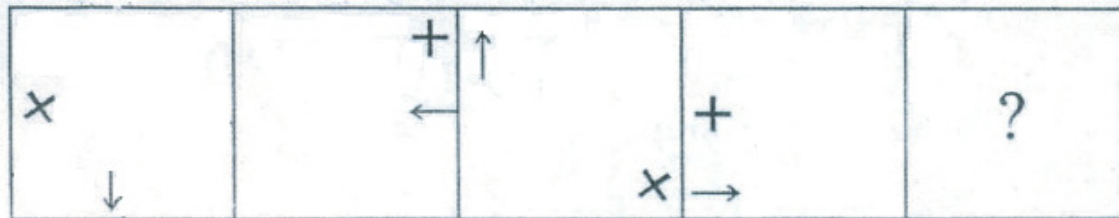
(1)

(2)

(3)

(4)

25.



(1)

(2)

(3)

(4)

Q. 26 and 27. Directions:-If the sentence KEEP AWAY FROM EXPLOSIVE is written in the code language as ICCN YUYW DPMK CVNJMQGTC, then in the same code how will you write the words given in the following questions.

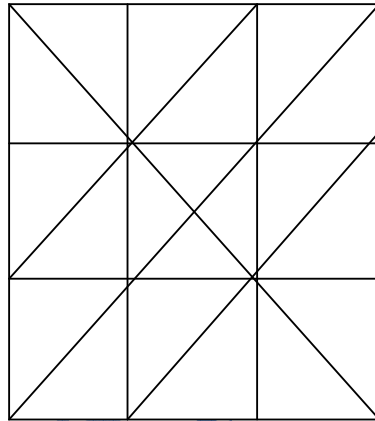
26. DANGER = ?

- (1) CZMFDQ (2) EBOHFS
(3) BYLECP (4) FCPIGT

27. FLAME = ?

- (1) DJYKC (2) EKZLD
(3) GMBNF (4) HNCOG

Q. 28 and 29. Directions :- Observe the following figure and answer the following questions by Choosing the correct alternative given below.



28. Find the number of equilateral triangles in the given figure.

- (1) 32 (2) 18
(3) 5 (4) 0

29. Find the number of parallelograms which are not rectangles from the given figure.

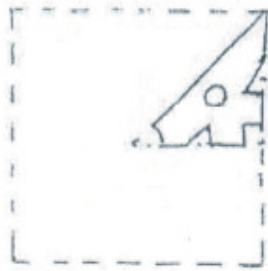
- (1) 4
(2) 6
(3) 8
(4) 10

30. 'Environment Day' falls on Thursday, then on which day 'Children's Day' will fall in the same year ?

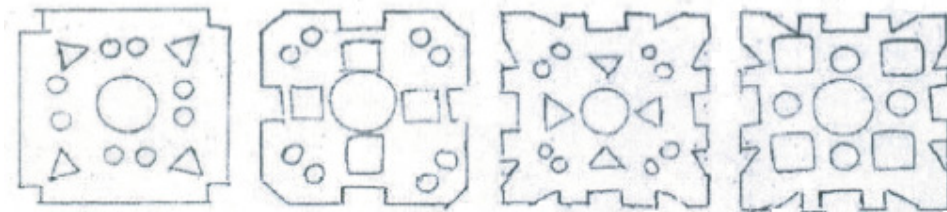
- (1) Friday
- (2) Saturday
- (3) Sunday
- (4) Monday

31. Directions - A square piece of paper is folded and cut at specific spots as shown in the figure. The paper when unfolded will look as shown in one of the alternatives. Select the correct alternative.

Question Figure:



Answer Figures



(1)

(2)

(3)

(4)

Q. 32 and 33. Directions :- Find the odd term out.

32. (1) EMI

(2) BJF

(3) DLH

(4) GOJ

33. (1) ABXY

(2) FGTU

(3) IJQR

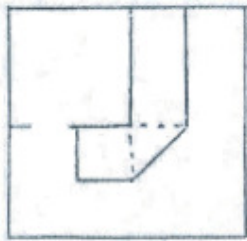
(4) CDWX

34. Yash starts moving towards South and walks for 12 m. Then he takes the left turn and walks for 8 m. Again he takes a right turn and walks for 24 m. Now he takes a turn to North-east direction and walks 25 m. From that he takes a turn towards North and walks 20 m. Find the distance between the start point and the finishing point of his movement.

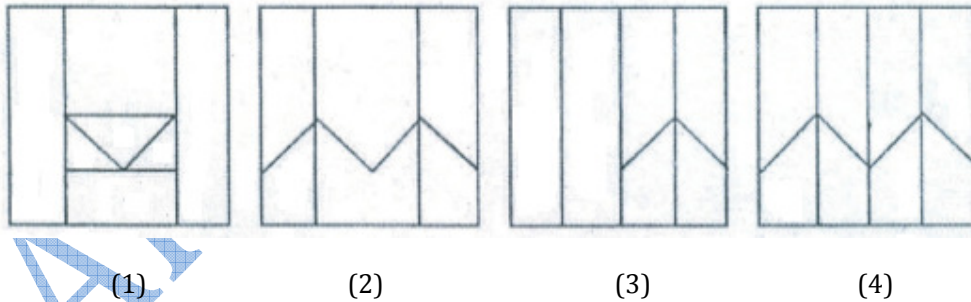
- (1) 12m
- (2) 15 m
- (3) 17 m
- (4) 25 m

35. Directions-A folded piece of square paper is shown as question figure, The paper is unfolded. How will it look is shown in the alternatives. Select the correct alternative.

Question Figure :



Answer Figures:



Q. 36 and 37. Directions :- Six friends A, B, C, D, E, F are sitting around a round table. F is sitting in between A and D. C is sitting in between E and B. E is not sitting between D and C. D is at second position to the left of C. Answer the following questions.

36. Who is sitting in between A and C ?

- (1) B (2) E
- (3) D (4) Cannot be said

37. What is the position of D ?

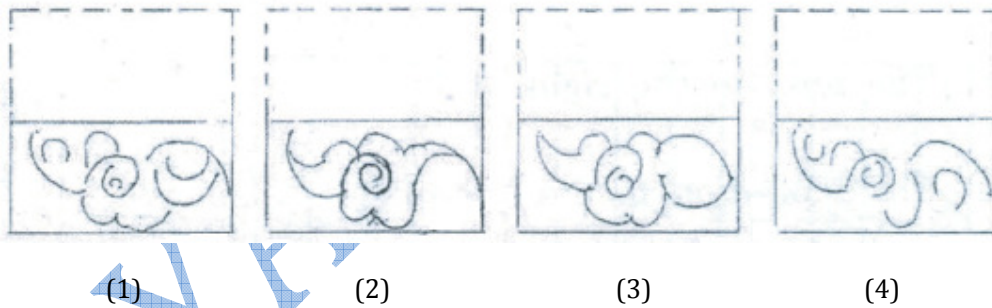
- (1) Second position to the right of A
- (2) The next to the right of B
- (3) Third position to the left of B
- (4) Fourth position to the right of A

38. A square transparent sheet of paper is folded on the dotted line as shown in the question figure. Choose the correct alternative from the answer figure a how the paper will look when folded.

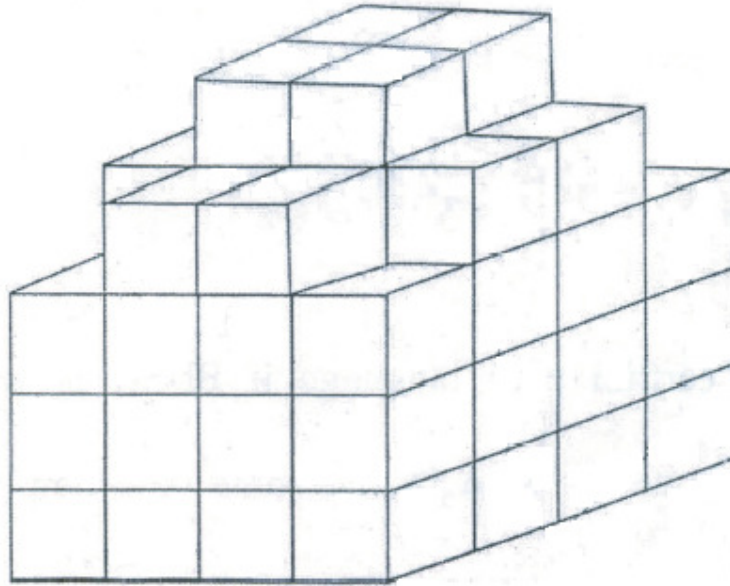
Question Figure:



Answer Figures :



Q. 39 and 40. Directions:- 64 cubes of same size are arranged according to the figure given below. These cubes are, painted from out side. Observe the figure and answer the following questions.



39. How many cubes have two sides coloured ?

- (1) 4 (2) 8
(3) 12 (4) 24

40. How many cube no side painted ?

- (1) 0 (2) 4
(3) 8 (4) 12

41. In a certain code language if BUSH is written as 58, MARK is written as 65, then in the same code how will you write the word PERL?

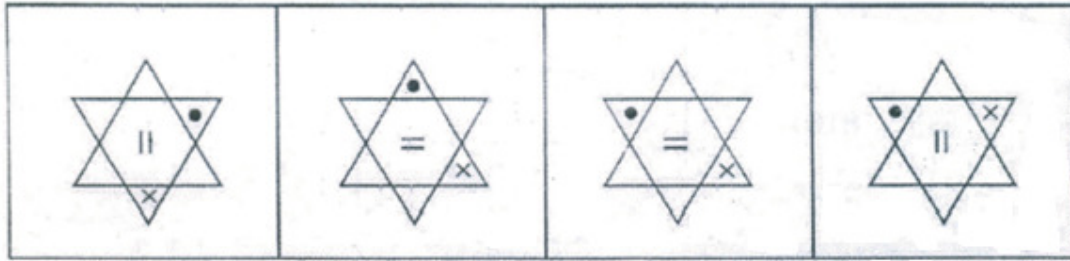
- (1) 48
(2) 51
(3) 54
(4) 57

42. In a certain code language if SMASH = 30 and DRIVE = 29, then POINT = ?

- (1) 37
(2) 38
(3) 39
(4) 41

Q. 43 and 44. Directions :- Find the odd term out.

43.



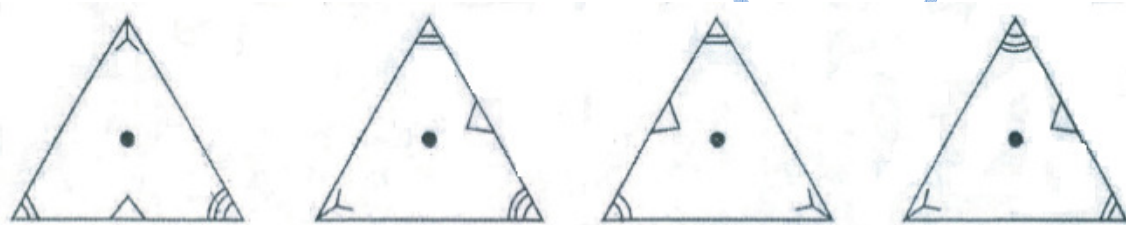
(1)

(2)

(3)

(4)

44.



(1)

(2)

(3)

(4)

45. In a certain code language if $44 \times 44 = 4444$ and $34 \times 52 = 5423$ then find the value of 81×46 in the same code language.

(1) 1648

(2) 8461

(3) 8164

(4) 4168

46. In a certain code language if $3 + 3 = 9$, $6 - 3 = 2$, $4 \times 3 = 1$,

$3 \div 2 = 5$, then find $24 \times 6 \div 8 - 2 + 3 = ?$

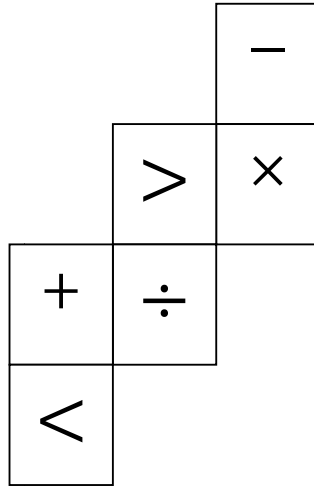
(1) 33

(2) 30

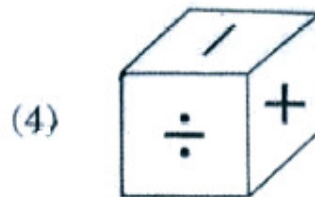
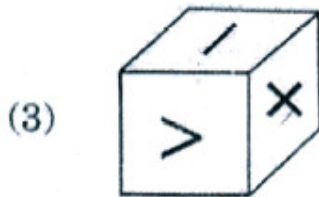
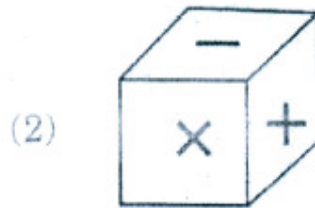
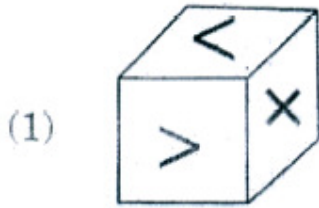
(3) 28

(4) 06

Q. 47 and 48. Directions :- The figure given below is folded to form a cube. Observe the figure and answer the questions given ahead.



47. Of the following cube figures, find the most relevant- figure.



48. Which sign will be there on the opposite surface of the sign '>' ?

(1) - (2) +

(3) × (4) <

Q. 49 and 50. Directions :- Observe the following pyramid of alphabets and answer the following questions.

a
b c
f e d
g h i j
o n m l k
p q r s t u
b a z y x w v
c d e f g h i j

49. onza, nmyz, mlxy, ?

- (1) nmst (2) hilm
(3) abcd (4) lkwx

50. aqze : wtxh :: ghno : ?

- (1) abce
(2) qrfe
(3) jilk
(4) ijlh