

NATIONAL TALENT SEARCH EXAMINATION, 2013-14

STATE LEVEL EXAMINATION – QUESTION BOOKLET

**GENERAL MENTAL ABILITY
TEST**

CLASS – X

MEDIUM: - ENGLISH

DATE: 17 NOVEMBER 2013, DAY: SUNDAY

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

Maximum Marks: 50

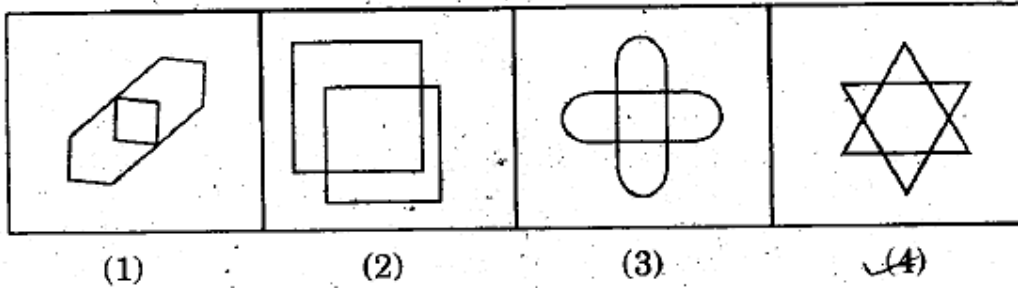
Time: 45 Minutes

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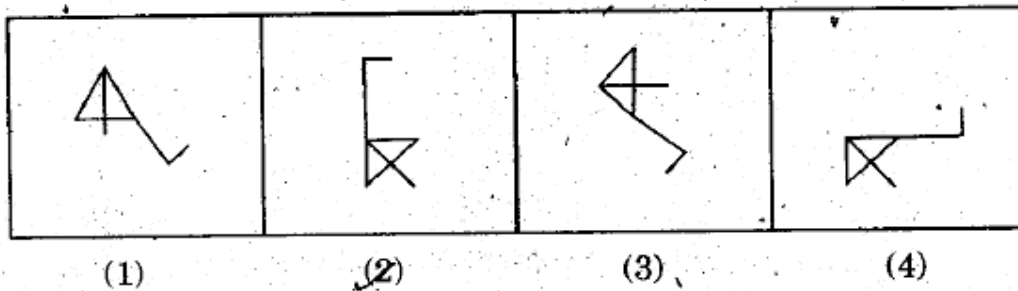
GENERAL MENTAL ABILITY TEST

Q. 1 and 2. = *Direction:* - Find the odd term out.

1.



2.



Q. 3 and 4. = *Directions:* - In the following questions a specific group is given. From the given alternatives, find out the right term which matches the given group.

3. 123, 147, 173

- | | |
|---------|---------|
| (1) 201 | (2) 225 |
| (3) 169 | (4) 144 |

4. XWVU, SRAP, NMLK

- | | |
|----------|----------|
| (1) BCDE | (2) QRST |
| (3) MNOP | (4) IHGF |

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

5. 1234, 1240, 1246, 1258, 1268, ?

- (1) 1280 (2) 1284
(3) 1285 (4) 1290

6. 21, 23, 39, 47, 75, ?

- (1) 87 (2) 92
(3) 99 (4) 110

7. K16M, H19J, E22G, ?

- (1) D23B (2) B24D
(3) B25D (4) C24E

8. MNZA, LOYB, KPXC, JQWD, ?

- (1) IREV (2) HSUF
(3) GTTG (4) IRVE

Q. 9 to 12. = *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 second term which will replace the question mark (?). Select the correct term from the alternatives given.

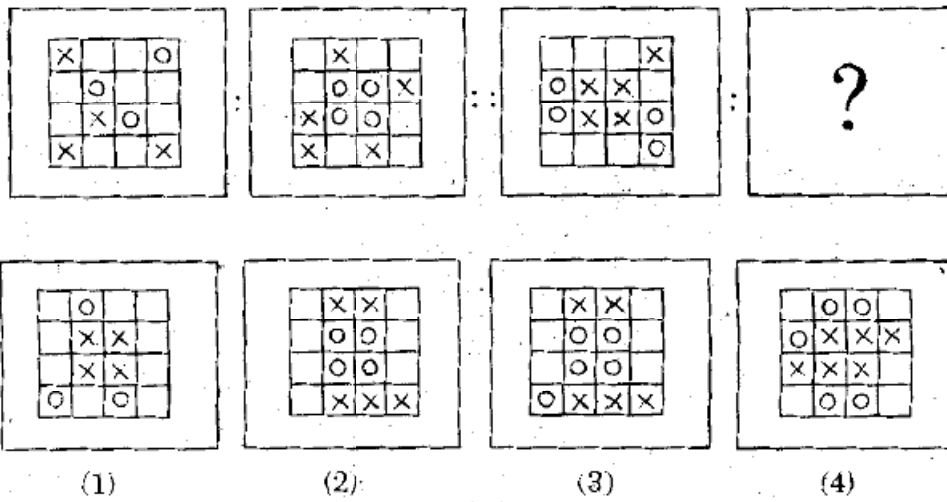
9. EFH : ILM :: ? : ?

- (1) ILM : OPQ (2) EGH : IMN
(3) OPR : URT (4) OPQ : UBT

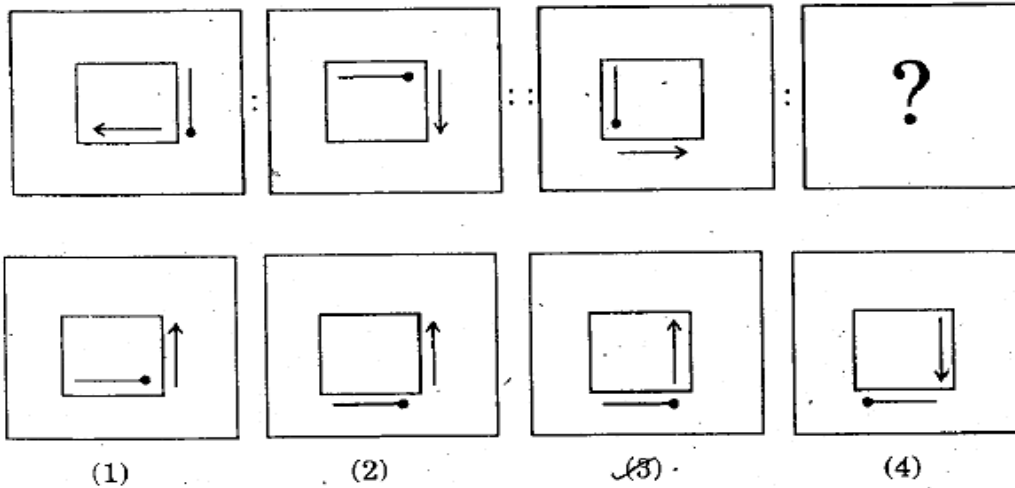
10. BJH : EQL :: DNJ : ?

- (1) JYO (2) KQZ
(3) GKI (4) GUN

11.



12.



13. ambccmamcbcamcbacacmmamcb. In the given alphabet series how many times 'm' is preceded by 'a' and succeeded by 'c'.

- (1) 6 (2) 3
 (3) 5 (4) 4

14. In a certain code language if SAM is written as 15321, then in the same code how will the word ART be written?

- (1) 32022
- (2) 20181
- (3) 11820
- (4) 22203

15. In a certain code language if D = 4 and DEAR = 7, then how will the word HOTEL be written?

- (1) 8
- (2) 10
- (3) 12
- (4) 20

16. A, B, C, D, E and F are six families living in different houses in a row. F and D are neighbours of B. E is neighbour of A and C. A is not a neighbor of F and D also if C is not a neighbour of D, then who is the neighbour of F?

- (1) B and C
- (2) B and F
- (3) B and D
- (4) Only B

Q. 17 and 18. = *Directions:* - Suresh and Urmila are good at singing. Suman being expert in elocution sings sweetly. Parag being an orator is also good at acting and singing. Vijaya, a dramatist, also delivers good lectures. Pictures drawn by Parag and Suresh are in great demand. Find answers to the following questions from the given alternatives.

17. Who has all the skills?

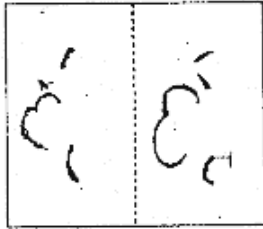
- (1) Suman
- (2) Urmila
- (3) Vijaya
- (4) Parag

18. Who is *not* an expert in elocution?

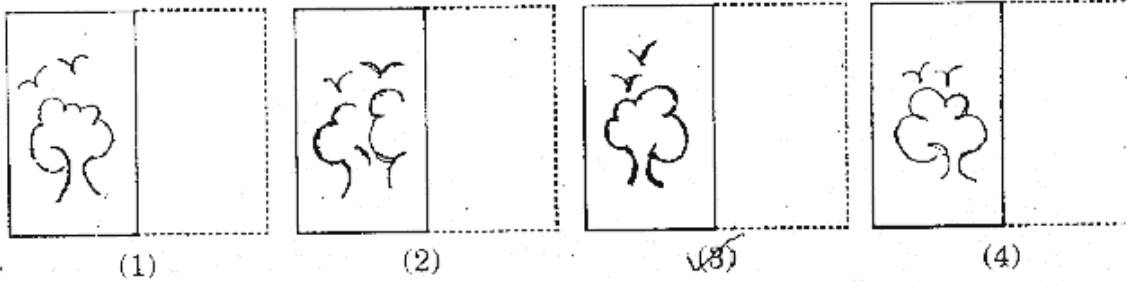
- (1) Suman and Vijaya
- (2) Vijaya
- (3) Suresh and Urmila
- (4) Urmila

19. A transparent square shaped paper is folded along the dotted lines. What figure will be obtained? Find the figure from the alternative figures given:

Question Figure :

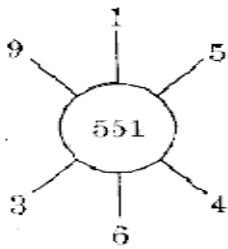


Answer Figures :



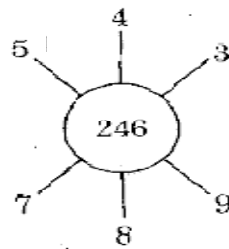
Q. 20 and 21. = Directions: - Find the correct alternative which will replace the question mark.

20.



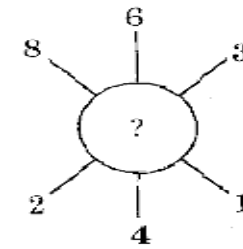
(1) 262

(3) 631

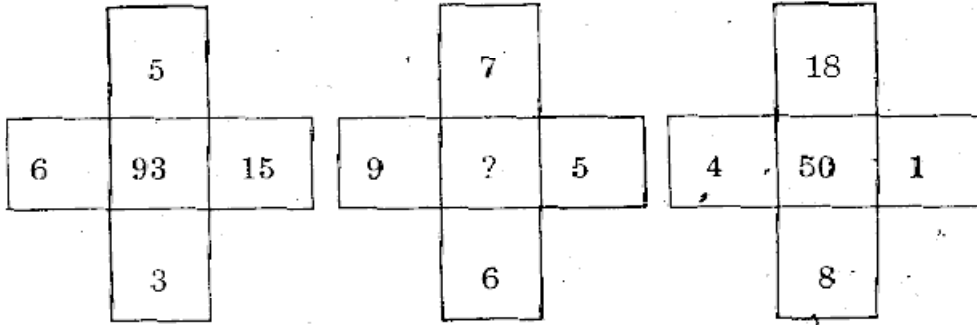


(2) 622

(4) 824



21.



(1) 5

(2) 19

(3) 27

(4) 89

22. Birthday of three siblings falls on 1st August. Ages of Kshama and Rama on 1st August 2002 were seven years and three years respectively. If Uma is neither elder to Kshama, nor younger to Rama, then among the following, which is the birth year of Uma?

(1) 1995

(2) 1994

(3) 1997

(4) 1999

Q. 23 to 25. = *Directions:* - Find the odd term out.

23. (1) 7830

(2) 6234

(3) 3246

(4) 7521

24. (1) R22D

(2) P36T

(3) M29G

(4) V24B

25. (1) CGIN

(2) BDFH

(3) EJOT

(4) DHLP

Q. 26 and 27. = *Directions:* - Using alphabets A to Z in sections of figure I and II a code has been created. First letter in every section is coded according to its shape and the second letter is

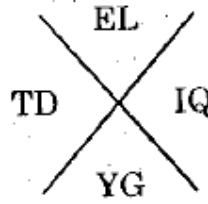
coded using a dot.

e.g. A is coded as \lrcorner ; C is coded as \ulcorner ; T is coded as \triangleright ; L is coded as ∇ .

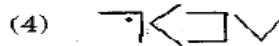
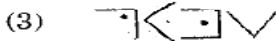
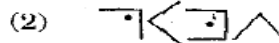
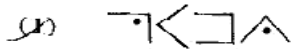
Figure I

AM	OS	BZ
NK	WP	FJ
XR	HV	UC

Figure II



26. What will be the code of RING?



27. What will be the code of SEVAK?



28. A rhythmic arrangement of alphabets is given. The missing letter alphabets appear in the same order in one of the alternative answers. Find the *correct* alternative:

—bc—ca—aba—c—ca

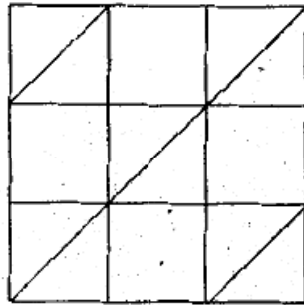
(1) abbcc

(2) bacba

(3) bbbcc

(4) abcbb

29. How many trapeziums are there in the following figure?



(1) 20

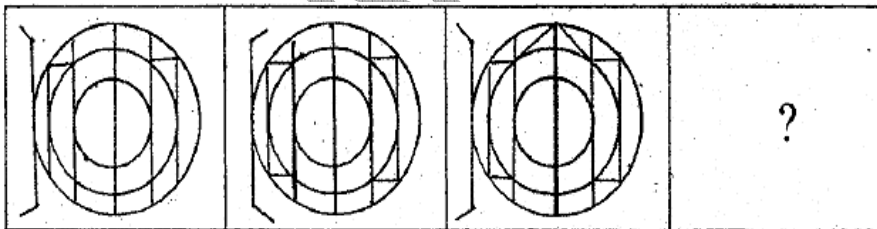
(2) 10

(3) 08

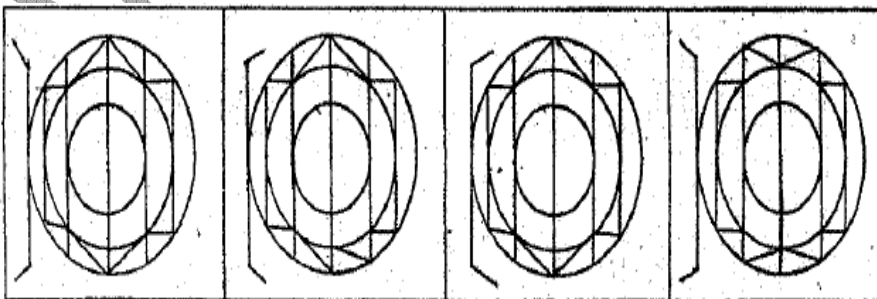
(4) 24

Q. 30 and 31. =Directions: - In each of the following question figures changes in a particular order. Find out the correct figure from the alternatives which will replace the question mark (?).

30. Question Figures:



Answer Figures:



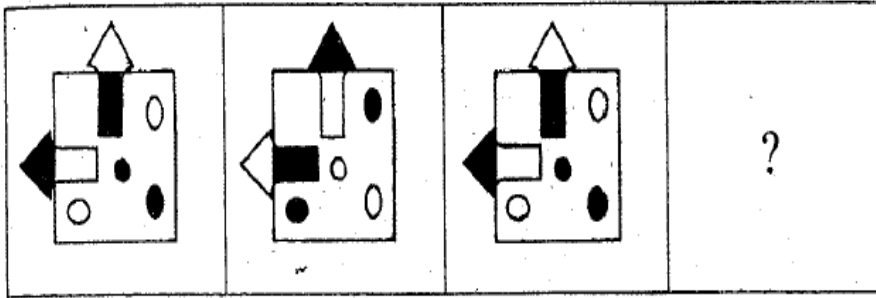
(1)

(2)

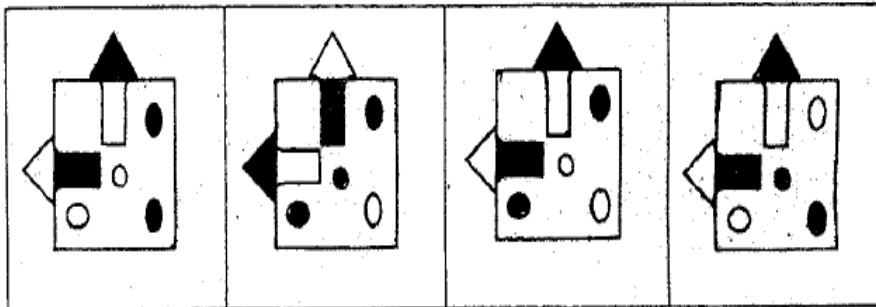
(3)

(4)

31. Question Figures:



Answer Figures:



(1)

(2)

(3)

(4)

32. Vivek is standing at the centre of a row of boys. Subhash is sixth to the right of Vivek. Niwas is standing fifteenth to the left of Subhash. Niwas is standing eleventh to the right of Yogesh. Find the total number of boys standing in a row.

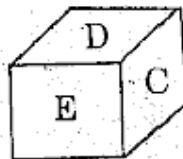
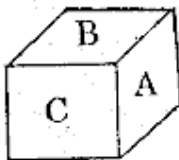
(1) 38

(2) 41

(3) 40

(4) 42

33. If 'F' letter is on the upper surface of a cube, then letter will be on the lower surface?



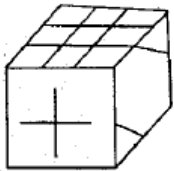
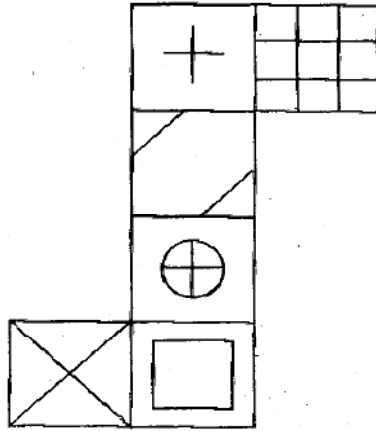
(1) B

(2) C

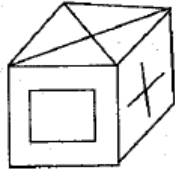
(3) D

(4) E

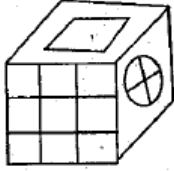
34. The figure given below is folded to form a cube. Of the following figures, find the non-relevant figure.



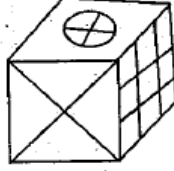
(1)



(2)

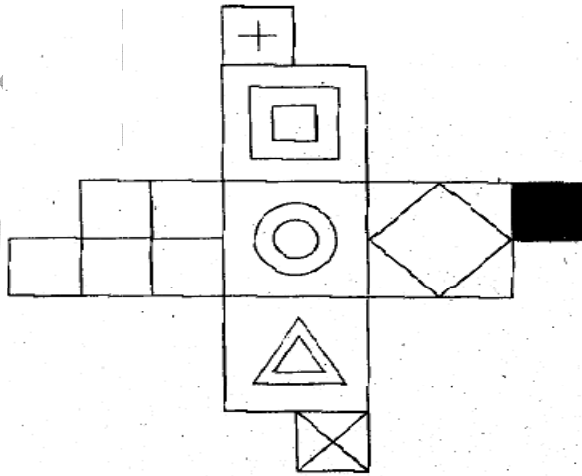


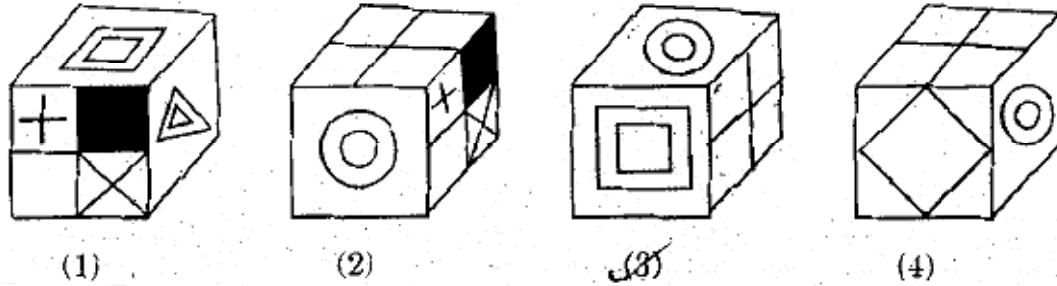
(3)



(4)

35. The adjoining figure is folded to form a cube. Of the following cube figures, find the most relevant figure.





Q. 36 to 38. = *Directions:* - Information was gathered based on observations of readers of these newspapers A, B and C. 26% people read newspaper A, 25% people read both newspaper B, 14% people read newspaper C, 11% people read both newspapers A and B, 10% people read both newspapers B and C. 9% people read both newspapers A and C and 0% people read only newspapers C. Based on this information answer the following questions.

36. What is the average of readers of all three newspapers?

- (1) 1 (2) 4
(3) 5 (4) 6

37. What is the average of people who read both A and B newspapers but do not read C newspaper?

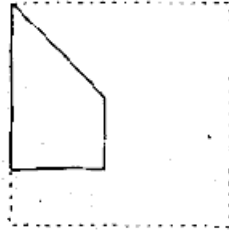
- (1) 2 (2) 4
(3) 5 (4) 6

38. What is the average of number of readers who read at least of newspaper?

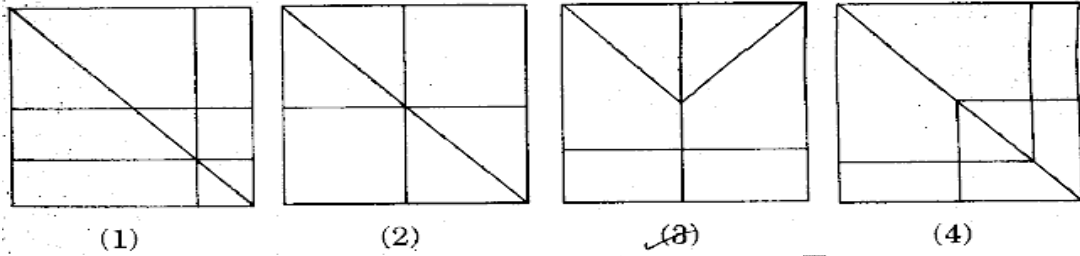
- (1) 40 (2) 50
(3) 60 (4) 65

39. 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. 40 and 41. = *Directions:* - Two tables are given below, which two groups of alphabets are written. In table I the rows and columns are numbered 0-4 and in table II the rows and columns are numbered 5-9. The alphabets in the tables are represented first by their row number and then by their column number e.g. A is represented as A = 12, 44.

Table I

	0	1	2	3	4
0	D	O	B	A	I
1	O	B	A	I	D
2	B	A	I	D	O
3	A	I	D	O	B
4	I	D	O	B	A

Table II

	5	6	7	8	9
5	W	N	R	M	L
6	N	R	M	L	W
7	R	M	L	W	N
8	M	L	W	N	R
9	L	W	N	R	M

40. Which group of numbers represents DRAW?

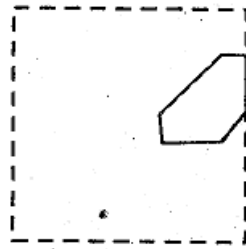
- (1) 41, 66, 23, 55
- (2) 14, 89, 12, 78
- (3) 23, 57, 30, 68
- (4) 32, 75, 44, 76

41. Which group of numbers represents LOAN?

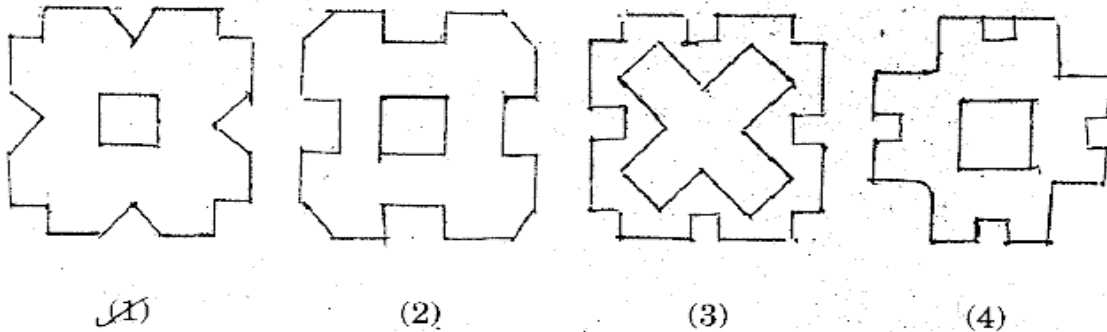
- (1) 95, 33, 12, 58
- (2) 77, 10, 42, 97
- (3) 68, 42, 03, 56
- (4) 59, 24, 12, 67

42. A Square piece of paper is folded and out 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 Figure:



Q. 43 to 45. = *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 the fourth term. Understanding the relation find the term which will replace the question mark (?).

43. $82 : 40 :: 36 : ?$

- (1) 19
- (2) 15
- (3) 74
- (4) 17

44. $4 : 48 :: ? : 180$

- (1) 8 (2) 6
 (3) 10 (4) 12

45. $15 : 36 :: 21 : ?$

- (1) 48 (2) 35
 (3) 45 (4) 23

Q. 46 and 47. = *Directions:* - Frontal surface of a cube of length 4 cm is painted yellow. Similarly other surface is painted blue, the other two sides are painted green and red. The cube is then converted into 64 small cubes. Answer the following question :

46. How many cubes have maximum two surface coloured?

- (1) 56 (2) 48
 (3) 24 (4) 8

47. How many cubes have one surface painted yellow?

- (1) 24 (2) 32
 (3) 16 (4) 8

48. Prakash is standing facing East. After turning 180° in anticlockwise direction, he travels straight for 8 km. turning to right he travels 2 km, then again turns right and travels 11 km, again turns right and covers 6 km. How far is he from his starting point?

- (1) 10 km (2) 3 km
 (3) 5 km (4) 13 km

Q. 49 and 50. = *Directions:* - Observe the pyramid of alphabets. Answer the following questions:

a
 b c
 d e f
 g h i j
 k l m n o

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

49. Which term is related to the terms vwdlkc, qrxedw, stzgyf?

- (1) fghpoq (2) mnsyxr
(3) ubiqph (4) cehmsn

50. Find the term which replaces the question mark (?):

Dheif : mfogp :: sztau : ?

- (1) eacif (2) yzsat
(3) rxqwp (4) rsyfe

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