

MENTAL ABILITY TEST (ENGLISH) **NMMS-VIII-M5**

NATIONAL MEANS CUM MERIT SCHOLARSHIP SCHEME EXAMINATION, 2018-19

राष्ट्रीय आर्थिक दुर्बल घटक विद्यार्थ्यांसाठी शिष्यवृत्ती योजना परीक्षा, 2018-19

CENTRE CODE केन्द्र संकेतांक

SEAT NO. आसन क्रमांक

**QUESTION BOOKLET**

प्रश्नपुस्तिका

**MENTAL ABILITY TEST**

बौद्धिक क्षमता चाचणी

CLASS VIII / इयत्ता ८वी

**MEDIUM : - ENGLISH WITH MARATHI ( मराठी ) VERSION**

[Date : 9<sup>th</sup> DECEMBER, 2018]

[Time : 10:30 A.M. to 12:00 A.M.]

[वेळ : 10:30 A.M. ते 12:00 A.M.]

**Maximum Marks : 90**

एकूण गुण : 90

**Time : 90 Minutes**

वेळ : 90 मिनिटे

**Total Pages : 48**

एकूण पाने: 48

# INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you answer the questions. Answers are to be given on the separate answer-sheet.

1. Please write your Centre Code and Seat No. very clearly (only one digit in one block). Before writing your Seat No. get it ascertained from the Centre Conductor. Please see that no block is left unfilled and even zeros appearing in the Centre Code and Seat No. are correctly transferred to the appropriate blocks on the booklet and on the answer sheet.

Example :

CENTRE CODE केन्द्र संकेतांक							
------------------------------	--	--	--	--	--	--	--

SEAT NO. आसन क्रमांक												
----------------------	--	--	--	--	--	--	--	--	--	--	--	--

For all subsequent purposes your Centre Code and Seat No. shall remain the same. Centre once allotted will not be changed

2. All questions carry **one** mark each.
3. Since **all questions are compulsory** do not try to read through the whole question paper before beginning to answer it.
4. Begin with the first question and keep on trying one question after another till you finish.
5. If you do not know the answer to any question, do not spend much time on it and pass on to the next one. Time permitting you can come back to the questions which you have left in the first instance and try them again.
6. Since the time allotted is very short you should make best use of it. The rough work is to be done in the box given under each page.
7. Remember you have to mark on your answers in **“Mental Ability Test” answer-sheet** only.
8. Answer to each question is to be indicated in the answer-sheet by encircling with black pen provided to you in the appropriate number of alternative in the answer-sheet from amongst the ones given for the corresponding question in the test booklet.
9. Do not write anything except Centre Code, Seat No. and rough work anywhere in this booklet.
10. Now turn to the next page and start answering the questions.



**Mental Ability Test**

Q. 1 to 3 : Directions : Which number will replace the question marks in the given series.

1. 336, 210, 120, 60, 24, ?

- |        |       |
|--------|-------|
| (1) 12 | (2) 6 |
| (3) 5  | (4) 8 |

2. 32, 37, 47, 58, 71, ?

- |        |        |
|--------|--------|
| (1) 79 | (2) 78 |
| (3) 82 | (4) 80 |

3. 5, 6, 9, 16, 31, ?

- |        |        |
|--------|--------|
| (1) 46 | (2) 58 |
| (3) 61 | (4) 62 |

**Q. 4 to 6 :** Directions : If the alphabets A to Z are coded as follows. A = 1, B = 3, C = 5, D = 7, ..... then answer the following questions.

4. Write the letter that appears exactly at the middle place between 29<sup>th</sup> and 37<sup>th</sup> letter.

- |       |       |
|-------|-------|
| (1) P | (2) R |
| (3) Q | (4) S |

5. Write the meaningful word that will be prepared by taking 39<sup>th</sup>, 27<sup>th</sup>, 11<sup>th</sup> and 29<sup>th</sup> letter

- |          |          |
|----------|----------|
| (1) KING | (2) FONT |
| (3) REST | (4) FAUL |

6. A meaningful word is prepared by using the letters 'O, E, Y, N, J'. Write the number of the letter that comes exactly at the middle place of that word.

- |        |        |
|--------|--------|
| (1) 19 | (2) 9  |
| (3) 27 | (4) 31 |

Only for Rough Work

प्र. 1 ते 3 : सूचना : पुढील प्रश्नात प्रश्नचिन्हाचे जागी क्रमाने कोणती संख्या येईल ?

1. 336, 210, 120, 60, 24, ?

- (1) 12 (2) 6  
(3) 5 (4) 8

2. 32, 37, 47, 58, 71, ?

- (1) 79 (2) 78  
(3) 82 (4) 80

3. 5, 6, 9, 16, 31, ?

- (1) 46 (2) 58  
(3) 61 (4) 62

प्र. 4 ते 6 : सूचना : A ते Z ही इंग्रजी अक्षरमाला A = 1, B = 3, C = 5, D = 7, ..... या प्रमाणे लिहिली तर पुढील प्रश्नांची उत्तरे लिहा.

4. 29 वे व 37 वे अक्षरांच्या मधोमध येणारे अक्षर कोणते ?

- (1) P (2) R  
(3) Q (4) S

5. 39 वे, 27 वे, 11 वे व 29 वे अक्षर घेऊन कोणता अर्थपूर्ण शब्द तयार होईल ?

- (1) KING (2) FONT  
(3) REST (4) FAUL

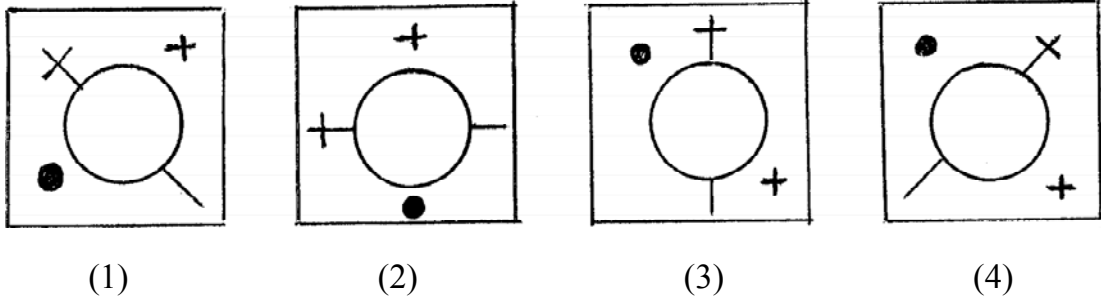
6. 'O E Y N J' या अक्षरांपासून एक अर्थपूर्ण शब्द तयार होतो. त्या शब्दांतील मधोमध येणाऱ्या अक्षरांचा क्रमांक कोणता येईल ?

- (1) 19 (2) 9  
(3) 27 (4) 31

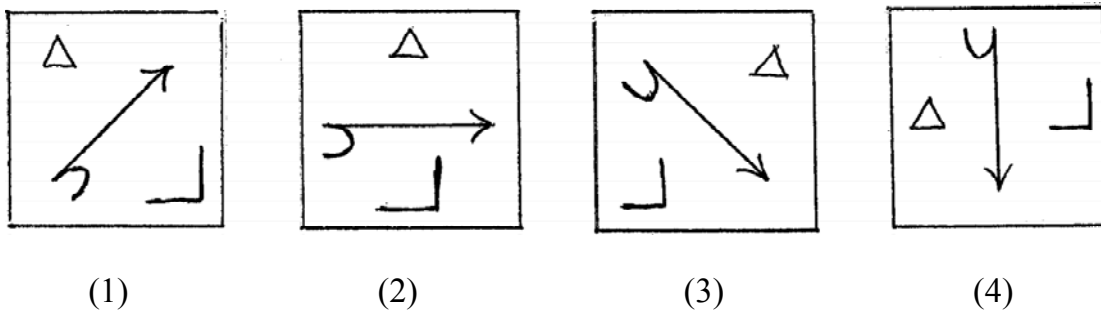
Only for Rough Work

Q. 7 to 9 : Directions : Find the odd figure

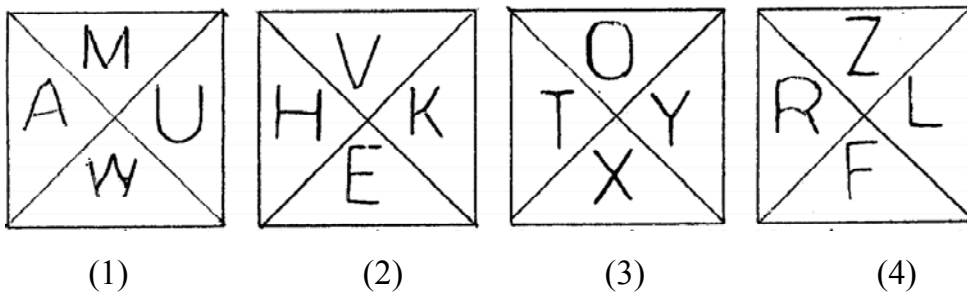
7.



8.



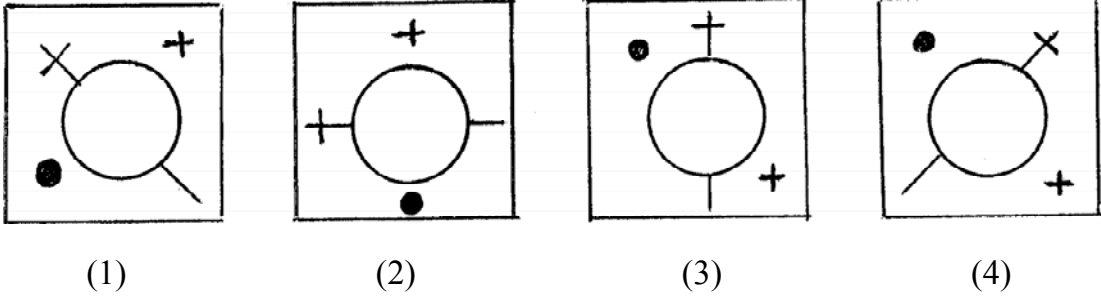
9.



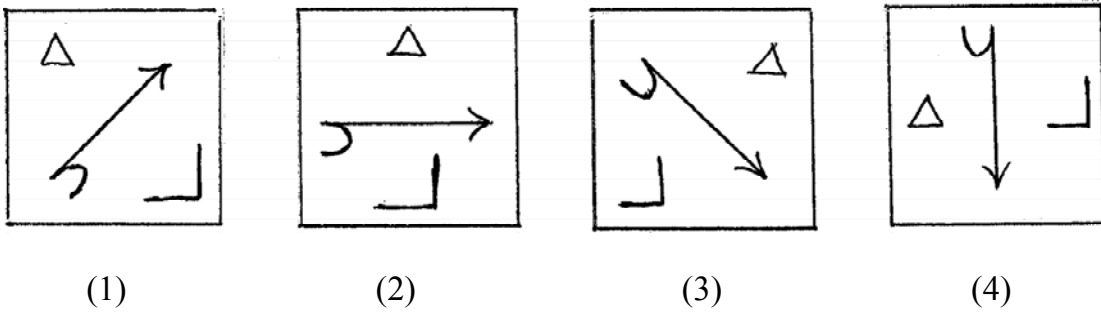
Only for Rough Work

प्र. 7 ते 9 : सूचना : गटात न बसणारी आकृती ओळखा.

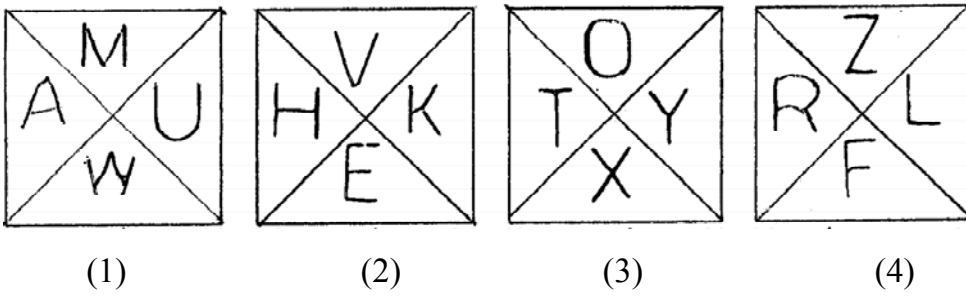
7.



8.



9.



Only for Rough Work

**Q. 10 to 12 :** Directions : In the following questions there is a specific relation between first and second term. The same relationship exists between third and fourth term, which will replace the question mark. Select the correct alternative from the given alternatives.

10. KTS : JLSURT :: ? : MOLNJL

- (1) LMK (2) PKS  
(3) NMK (4) MNK

11. SPJ : XUO :: THN : ?

- (1) XNT (2) TMS  
(3) YNT (4) YMS

12. AMK : HUT :: JDP : ?

- (1) QLY (2) QKW  
(3) QYL (4) QJX

**Q. 13 to 15 :** Directions : In the following questions numbers are written with a specific rule. According to that rule which alternative will be in place of question mark?

13.

4	5	141
7	2	57
3	6	?

- (1) 125 (2) 167  
(3) 198 (4) 225

14.

13	61	20
44	3	?
8	80	5

- (1) 29 (2) 31  
(3) 33 (4) 37

Only for Rough Work



प्र. 10 ते 12 : सूचना : पहिल्या पदाचा दुसऱ्या पदांशी जसा संबंध आहे तसाच संबंध तिसऱ्या व चौथ्या पदात आहे. तो शोधून प्रश्नचिन्हाचे जागी योग्य पर्याय लिहा.

10. KTS : JLSURT :: ? : MOLNJL

- (1) LMK (2) PKS  
(3) NMK (4) MNK

11. SPJ : XUO :: THN : ?

- (1) XNT (2) TMS  
(3) YNT (4) YMS

12. AMK : HUT :: JDP : ?

- (1) QLY (2) QKW  
(3) QYL (4) QJX

प्र. 13 ते 15 : सूचना : खालील प्रश्नांतील चौऱसातील संख्यांमध्ये एक विशिष्ट नियम आहे. तो नियम अभ्यासून प्रश्नचिन्हाचे जागी योग्य पर्याय लिहा.

13.

4	5	141
7	2	57
3	6	?

- (1) 125 (2) 167  
(3) 198 (4) 225

14.

13	61	20
44	3	?
8	80	5

- (1) 29 (2) 31  
(3) 33 (4) 37

Only for Rough Work

15.

56	39	22
40	38	36
61	?	29

(1) 45

(2) 47

(3) 53

(4) 59

16. It was Monday on 1<sup>st</sup> Aug. 2016. Then which day will be on 1<sup>st</sup> Aug. 2025?

(1) Monday

(2) Tuesday

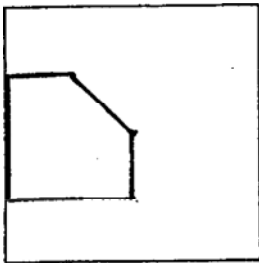
(3) Thursday

(4) Friday

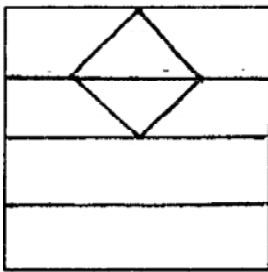
**Q. 17 & 18 :** Directions : The folded figure of a square paper is given below. If it is unfolded, how will it look like? select the correct alternative given.

17.

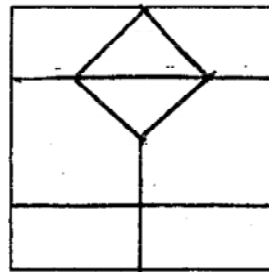
Question figure



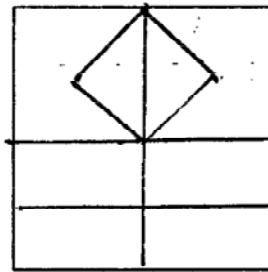
Answer figures



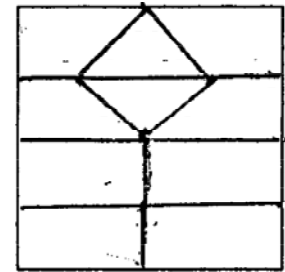
(1)



(2)



(3)



(4)

Only for Rough Work

15.

56	39	22
40	38	36
61	?	29

(1) 45

(2) 47

(3) 53

(4) 59

16. 1 ऑगष्ट 2016 रोजी सोमवार होता तर 15 ऑगष्ट 2025 रोजी कोणता वार असेल ?

(1) सोमवार

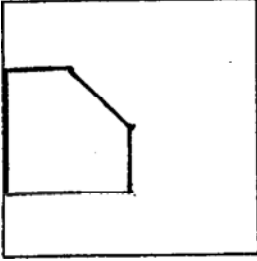
(2) मंगळवार

(3) गुरुवार

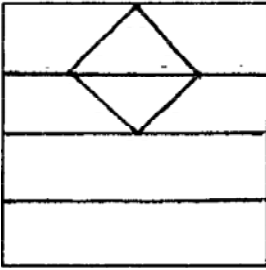
(4) शुक्रवार

प्र. 17 व 18 : सूचना : खाली दिलेल्या प्रश्नआकृतीत दाखवल्याप्रमाणे एका चौरसाकृती कागदाला घातलेली घडी दिली आहे. तोच कागद उलगडल्यानंतर कसा दिसेल ते पर्यायांतून शोधा.

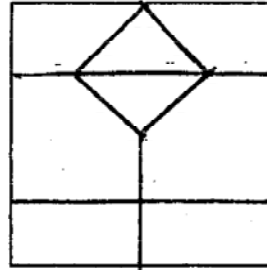
17. प्रश्न आकृती



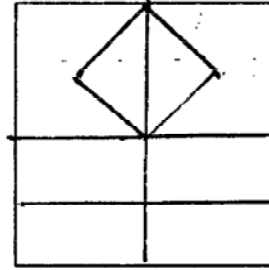
उत्तर आकृत्या



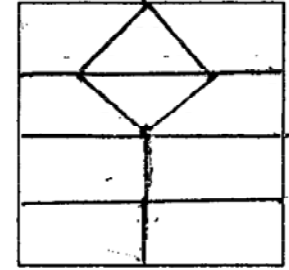
(1)



(2)



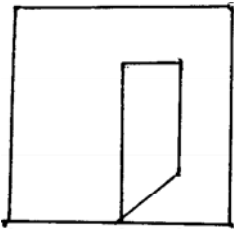
(3)



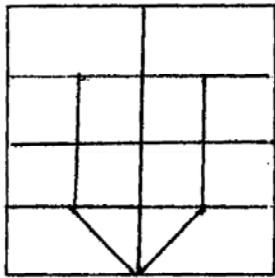
(4)

Only for Rough Work

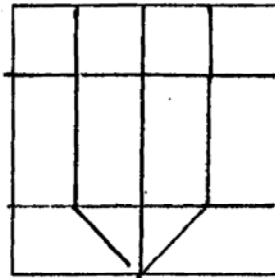
18. Question figure



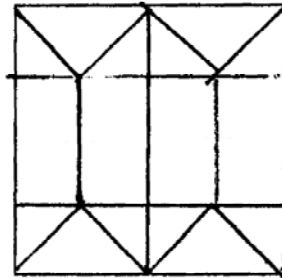
Answer figures



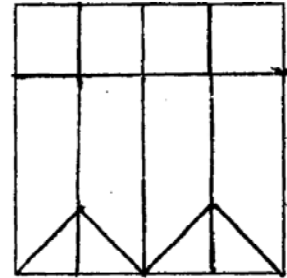
(1)



(2)



(3)



(4)

Q. 19 to 22 : Directions : In each of the following questions find out the term which matches the given group.

19. 29, 40, 53

(1) 30

(2) 68

(3) 84

(4) 14

20. 48, 832, 618

(1) 22

(2) 515

(3) 202

(4) 204

21. 512, 619, 327

(1) 2104

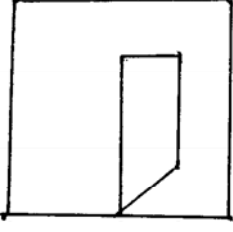
(2) 49

(3) 865

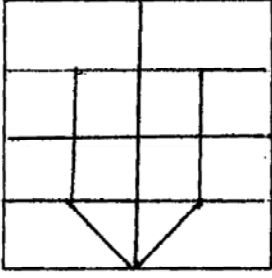
(4) 3532

Only for Rough Work

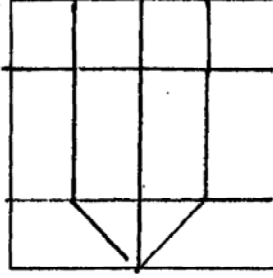
18. प्रश्न आकृती



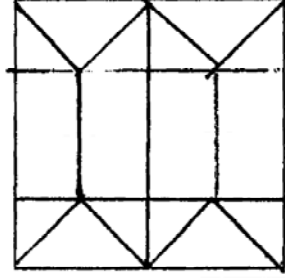
उत्तर आकृत्या



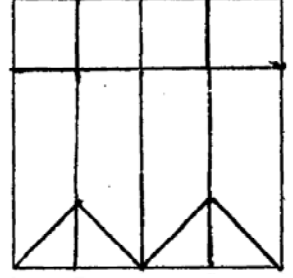
(1)



(2)



(3)



(4)

प्र. 19 ते 22 : सूचना : पुढील प्रश्नांत संख्यांचा एक विशिष्ट गट दिला आहे. दिलेल्या पर्यायातील एक पर्याय त्या गटांशी जुळतो. तो शोधून योग्य पर्याय लिहा.

19. 29, 40, 53

(1) 30

(2) 68

(3) 84

(4) 14

20. 48, 832, 618

(1) 22

(2) 515

(3) 202

(4) 204

21. 512, 619, 327

(1) 2104

(2) 49

(3) 865

(4) 3532

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22. 218, 66, 345

(1) 725

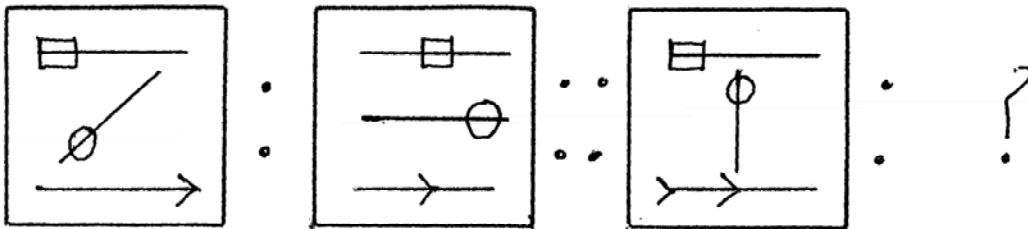
(2) 234

(3) 514

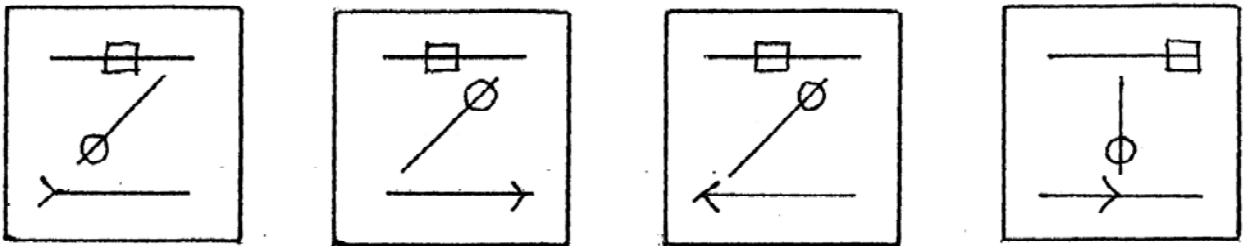
(4) 623

**Q. 23 & 24 :** Directions : In the following questions there is a specific relation between first and second figure. The same relationship exists between the third and the fourth figure which will replace the question mark. Select the correct figure from the alternatives given below each question.

23. Question figures



Answer figures



(1)

(2)

(3)

(4)

Only for Rough Work

22. 218, 66, 345

(1) 725

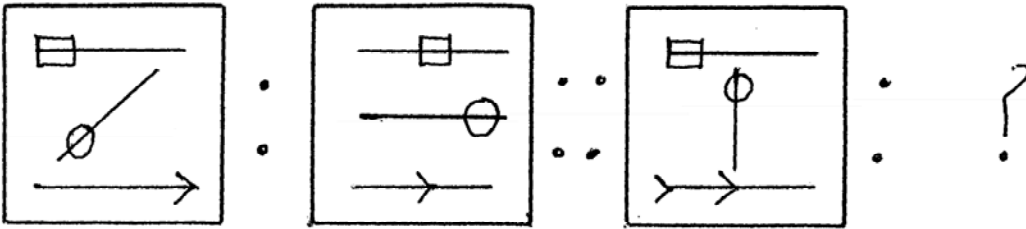
(2) 234

(3) 514

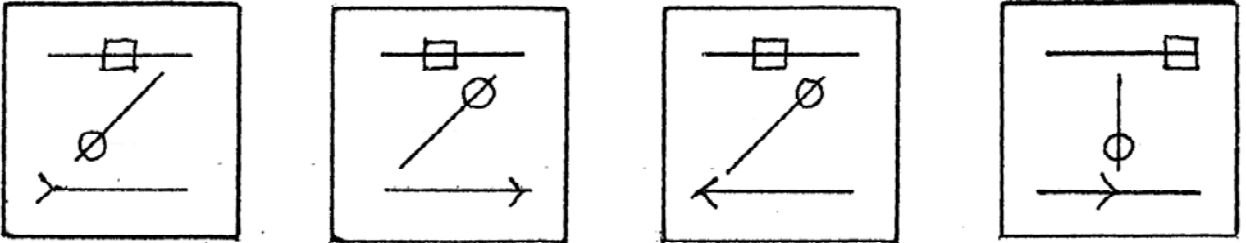
(4) 623

प्र. 23 व 24 : सूचना : पहिल्या आकृतीचा दुसऱ्या आकृतीशी जसा संबंध आहे तसाच संबंध तिसऱ्या व चौथ्या आकृतीमध्ये आहे. तो संबंध शोधून प्रश्नचिन्हाचे जागी योग्य पर्याय लिहा.

23. प्रश्न आकृत्या



उत्तर आकृत्या



(1)

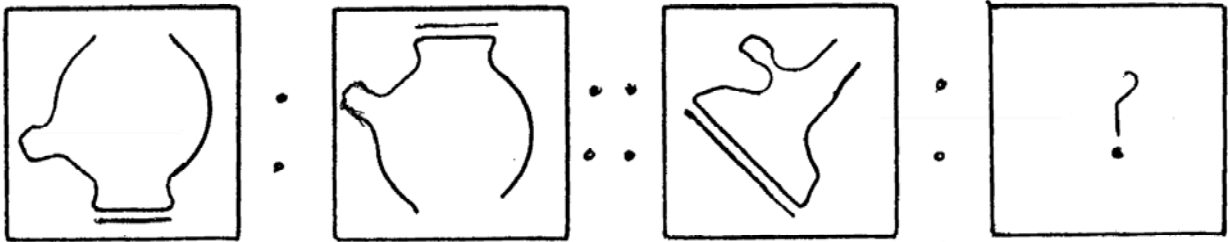
(2)

(3)

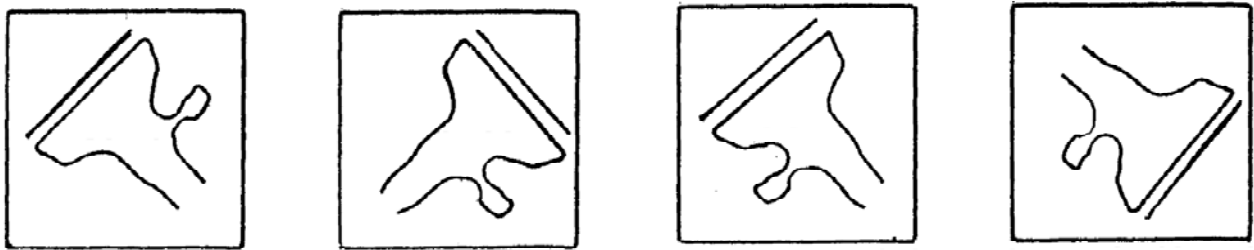
(4)

Only for Rough Work

24. Question figures



Answer figure



(1)

(2)

(3)

(4)

25. From one place Sameer travels 6km. towards East. Then he turns right and travels 4km. Again he turns right and walks 2km. Again he turns right and walks 1km. Then he turns left and walks 8km. Now he turns North and stops after walking 3km. then he turns right making angle  $45^\circ$  and walks 5km. Find his direction from the origin.

(1) North

(2) West

(3) At the origin

(4) East

26. Tushar faces North-East direction then he turns left making angle  $135^\circ$ . and then did 'Shirshasan'. Which direction he faces now?

(1) East

(2) West

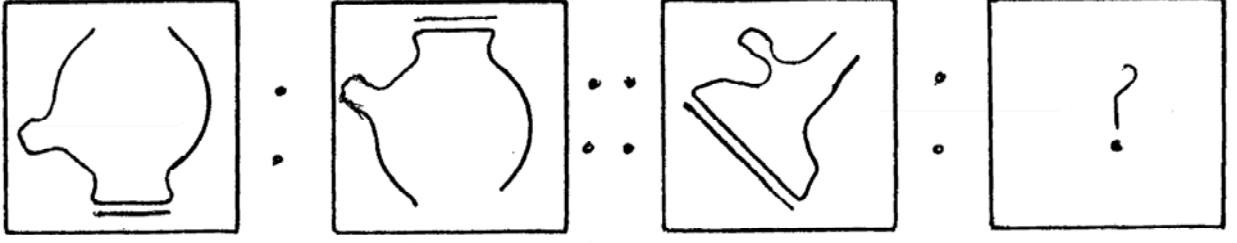
(3) South-East

(4) South-West

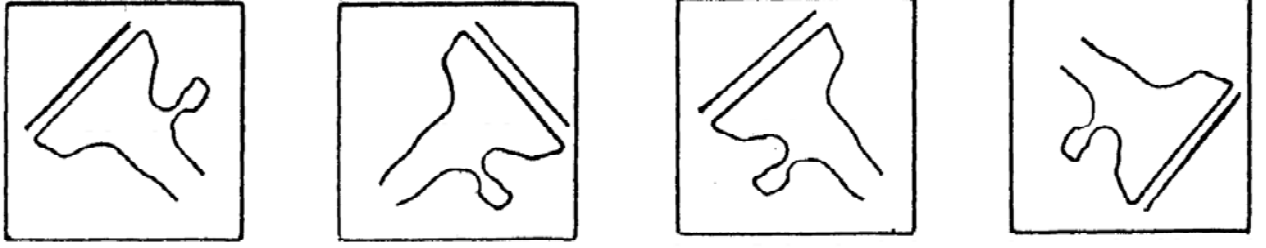
Only for Rough Work



24. प्रश्न आकृत्या



उत्तर आकृत्या



(1)

(2)

(3)

(4)

25. समीर एका ठिकाणापासून पूर्वेकडे 6 कि.मी. चालल्यावर उजवीकडे वळून पुन्हा 4 कि.मी. चालला. उजवीकडे वळून 2 कि.मी चालल्यावर परत उजवीकडे वळून 1 कि.मी. चालला. त्यानंतर डावीकडे वळून 8 कि.मी चालत गेला. शेवटी उत्तरेकडे वळून 3 कि.मी. जाऊन थांबला. नंतर उजवीकडे  $45^\circ$  मध्ये वळून 5 कि.मी गेला तर तो आरंभस्थानापासून कोणत्या दिशेस असेल.

(1) उत्तर

(2) पश्चिम

(3) आरंभस्थानी

(4) पूर्व

26. तुषारचे तोंड ईशान्य दिशेस होते. तो डावीकडे  $135^\circ$  कोनातून वळला आणि त्याने शीर्षासन केले तर त्याच्या समोरची दिशा कोणती ?

(1) पूर्व

(2) पश्चिम

(3) आग्नेय

(4) नैऋत्य

Only for Rough Work

27. In a row Jaswandi is standing at 5<sup>th</sup> place behind Nilima. Jaswandi is standing at 6<sup>th</sup> place from behind and she is 20<sup>th</sup> from the front then Nilima is standing at which position?
- (1) 16<sup>th</sup> from front (2) 17<sup>th</sup> from front  
(3) Tenth from behind (4) Eleventh from behind

**Q. 28 to 31 :** Directions : Using English alphabets answer the following questions.

28. In a code language if EARTH = DBQUG then in the same language VENUS = ?
- (1) UFMVR (2) TFMVR  
(3) WFOTR (4) UFMTR
29. In a code language if BEL = 19 and TIME = 47. then SMILE = ?
- (1) 59 (2) 58  
(3) 57 (4) 56
30. In a code language RIO = QSHJNP then in the same code language how to write word net ?
- (1) MLDEUV (2) MODFSU  
(3) MDOSUF (4) MODSFU
31. In a code language CUSTMER = SUCTREM then in the same code language PRODUCT = ?
- (1) RPDOCT (2) ORPDTCU  
(3) ORPUDCT (4) ORUDTCP

Only for Rough Work

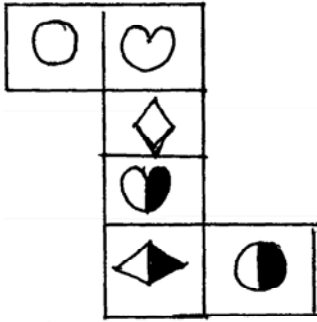
27. एका रांगेत निलीमाच्या मागे पाचव्या क्रमांकावर जास्वंदी उभी आहे. जास्वंदीचा क्रमांक शेवटून सहावा तर पुढून विसावा आहे. तर रांगेत निलिमाचा क्रमांक कितवा आहे ?
- (1) पुढून सोळावा (2) पुढून सतरावा  
(3) शेवटून दहावा (4) शेवटून 11वा

प्र. 28 व 31 : सूचना : इंग्रजी वर्णमालेचा उपयोग करून पुढील प्रश्नांची उत्तरे लिहा.

28. एका सांकेतिक भाषेत जर EARTH हा शब्द DBQUG असा लिहितात तर त्याच सांकेतिक भाषेत VENUS हा शब्द कसा लिहावा ?
- (1) UFMVR (2) TFMVR  
(3) WFOTR (4) UFMTR
29. एका सांकेतिक भाषेत जर BEL = 19 आणि TIME = 47 असेल तर SMILE = ?
- (1) 59 (2) 58  
(3) 57 (4) 56
30. एका सांकेतिक भाषेत जर RIO हा शब्द QSHJNP असा लिहितात तर त्याच सांकेतिक भाषेत NET हा शब्द कसा लिहावा ?
- (1) MLDEUV (2) MODFSU  
(3) MDOSUF (4) MODSFU
31. एका सांकेतिक भाषेत CUSTMER हा शब्द SUCTREM असा लिहितात तर त्याच सांकेतिक भाषेत PRODUCT हा शब्द कसा लिहावा ?
- (1) RPDOCUT (2) ORPDTCU  
(3) ORPUDCT (4) ORUDTCP

Only for Rough Work

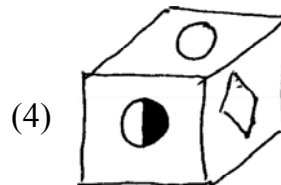
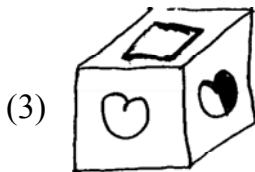
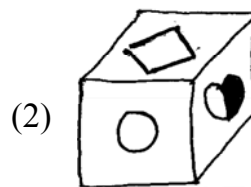
Q. 32 to 34 : Directions : The adjacent figure is folded to form a cube. Observe the figure and answer the following questions.



32. Which sign from the following will not be adjacent to ○ ?

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

33. Which of the following figure is the figure obtained by folding the paper to form a cube.

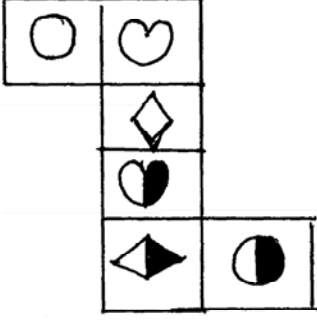


34. What sign will be on the surface opposite to surface having sign ?

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

Only for Rough Work

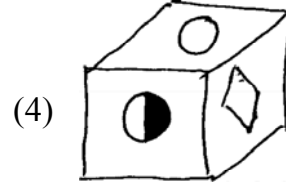
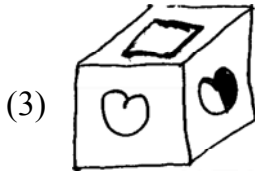
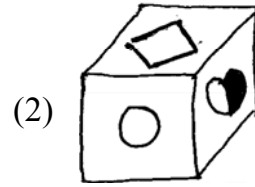
प्र. 32 ते 34 : सूचना : खाली दिलेल्या आकृतीला घड्या घातल्या तर एक ठोकळा तयार होतो. या आकृतीचे निरीक्षण करून पुढील प्रश्नांची उत्तरे लिहा.



32. खालीलपैकी कोणते चिन्ह ○ च्या शेजारी येणार नाही ?

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

33. खालीलपैकी कोणती आकृती तयार झालेल्या ठोकळ्याची आहे ?

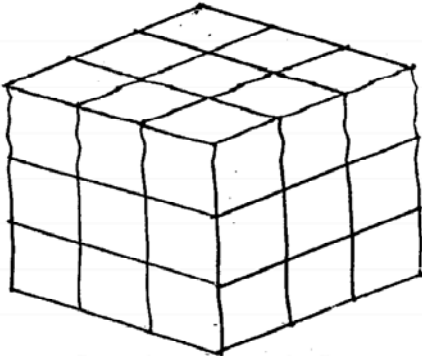


34. खालीलपैकी कोणते चिन्ह  च्या समोरच्या पृष्ठावर येईल ?

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

Only for Rough Work

**Q. 35 to 37 :** Directions : A cube having dimensions  $3 \times 3 \times 3$  is painted with violet and yellow colour. The four vertical faces are painted violet and the remaining two are painted yellow. Then the block is cut by  $1 \times 1 \times 1$  unit dimensions in small blocks. Answer the following questions.



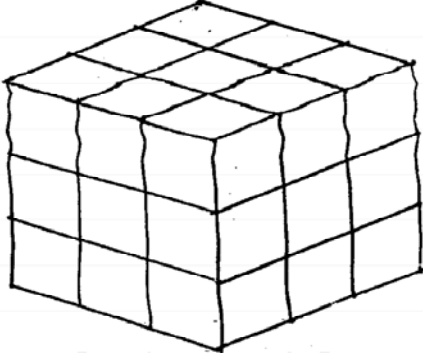
35. How many blocks are there painted yellow an one surface ?  
 (1) 3 (2) 9  
 (3) 27 (4) 18
36. How many blocks are there which are not painted by any one colour ?  
 (1) 0 (2) 1  
 (3) 3 (4) 9
37. How many blocks are there having two surfaces violet ?  
 (1) 3 (2) 9  
 (3) 10 (4) 12
38. Observe the following figure and choose the correct alternative to replace the question mark.

DEC	NOV	MAR
MAY	MAR	FEB
JUL	?	JAN

- (1) AUG (2) SEPT (3) APR (4) JUN
39. If  $-$  means multiplication  $+$  means division  $\times$  means addition and  $\div$  means subtraction then  $8 - 3 \div 15 + 5 = ?$   
 (1) 21 (2) 20 (3) 12 (4) 8

Only for Rough Work

प्र. 35 ते 37 : सूचना :  $3 \times 3 \times 3$  एकक मापाचा एक लाकडी ठोकळा रंगवताना चार उभ्या पृष्ठांना जांभळा व उरलेल्या दोन पृष्ठांना पिवळा रंग दिला. त्यानंतर त्याचे  $1 \times 1 \times 1$  एकक मापाचे ठोकळे केले तर पुढील प्रश्नांची उत्तरे लिहा.



35. एक पृष्ठावर पिवळा रंग असणारे किती ठोकळे मिळतील ?  
 (1) 3 (2) 9  
 (3) 27 (4) 18
36. एकही पृष्ठभाग रंगित नसणारे ठोकळे किती ?  
 (1) 0 (2) 1  
 (3) 3 (4) 9
37. दोन पृष्ठांवर जांभळा रंग असणारे ठोकळे किती ?  
 (1) 3 (2) 9  
 (3) 10 (4) 12
38. प्रश्नचिन्हाचे जागी काय येईल ? योग्य पर्याय लिहा.

DEC	NOV	MAR
MAY	MAR	FEB
JUL	?	JAN

- (1) AUG (2) SEPT (3) APR (4) JUN
39. जर - म्हणजे गुणाकार, + म्हणजे भागाकार,  $\times$  म्हणजे बेरीज आणि  $\div$  म्हणजे वजाबाकी असेल तर  $8 - 3 \div 15 + 5 = ?$   
 (1) 21 (2) 20 (3) 12 (4) 8

Only for Rough Work

40. If  $7 \times 9 = 56$ ,  $11 \times 13 = 132$  and  $15 \times 17 = 240$  then  $13 \times 15 = ?$

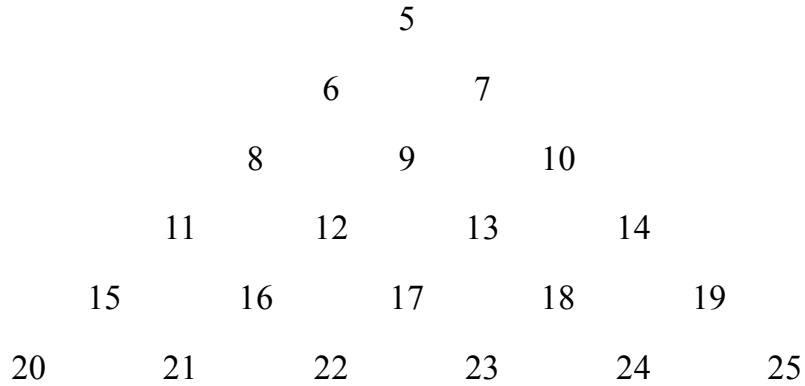
(1) 196

(2) 195

(3) 182

(4) 169

**Q. 41 to 43 :** Directions : Observe the pyramid of numbers and choose the correct alternative that will replace the question mark.



41.  $15, 11, 16 : 16, 22, 17 :: 11, 8, 12 : ?$

(1) 8, 12, 9

(2) 17, 23 18

(3) 12, 22, 17

(4) 12, 17, 13

42.  $6, 8, 12, 9 : 12, 16, 22, 17 :: 7, 9, 13, 10 : ?$

(1) 18, 19, 24, 25

(2) 16, 15, 20, 21

(3) 13, 17, 23, 18

(4) 13, 17, 18, 14

43.  $6, 5, 7 : 6, 9, 7 :: 9, 7, 10 : ?$

(1) 16, 22, 17

(2) 18, 23, 24

(3) 9, 23, 10

(4) 9, 13, 10

Only for Rough Work



40. जर  $7 \times 9 = 56$ ,  $11 \times 13 = 132$  आणि  $15 \times 17 = 240$  असेल तर  $13 \times 15 = ?$

(1) 196

(2) 195

(3) 182

(4) 169

प्र. 41 ते 43 : सूचना : दिलेल्या संख्यांच्या मनोऱ्यावरून खालील प्रश्नांची उत्तरे पर्यायांमधून शोधा.

			5		
			6	7	
		8	9	10	
	11	12	13	14	
	15	16	17	18	19
20	21	22	23	24	25

41.  $15, 11, 16 : 16, 22, 17 :: 11, 8, 12 : ?$

(1) 8, 12, 9

(2) 17, 23, 18

(3) 12, 22, 17

(4) 12, 17, 13

42.  $6, 8, 12, 9 : 12, 16, 22, 17 :: 7, 9, 13, 10 : ?$

(1) 18, 19, 24, 25

(2) 16, 15, 20, 21

(3) 13, 17, 23, 18

(4) 13, 17, 18, 14

43.  $6, 5, 7 : 6, 9, 7 :: 9, 7, 10 : ?$

(1) 16, 22, 17

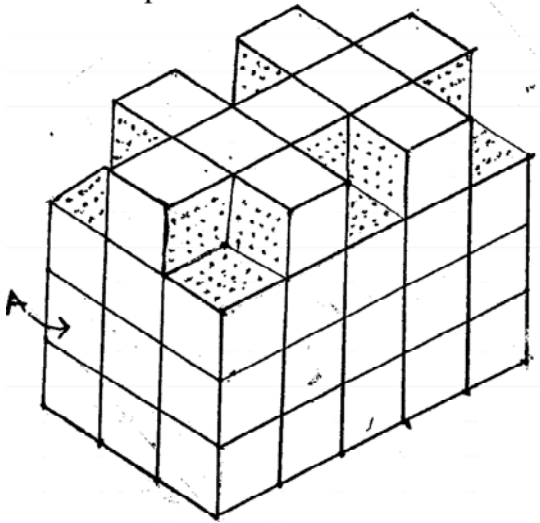
(2) 18, 23, 24

(3) 9, 23, 10

(4) 9, 13, 10

Only for Rough Work

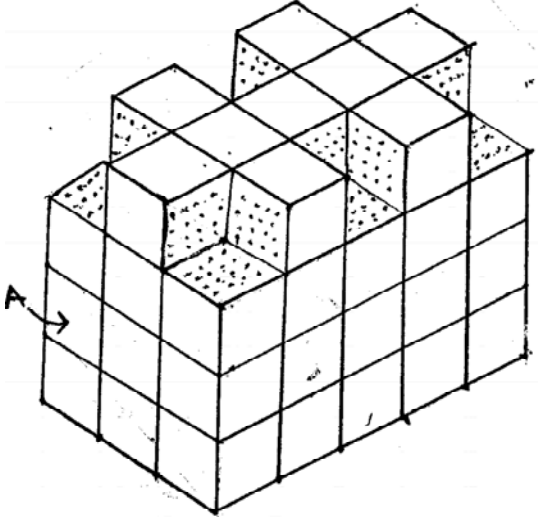
**Q. 44 to 47 :** Directions : In the following figure the solid cube is painted on all sides by a single colour. Observe the given solid and choose the correct alternative for the questions.



44. What is the total number of blocks in the figure.
- (1) 60 (2) 64  
(3) 54 (4) 50
45. Find the total number of blocks whose four faces are coloured.
- (1) 2 (2) 4  
(3) 6 (4) 8
46. Find the total number of blocks whose three sides are painted.
- (1) 4 (2) 6  
(3) 8 (4) 9
47. How many surfaces of the block denoted by letter 'A' has touched the surfaces of other blocks ?
- (1) 2 (2) 4  
(3) 5 (4) 6

Only for Rough Work

प्र. 44 ते 47 : सूचना : सोबतच्या आकृतीमध्ये कांही घनाकृती ठोकळे जोडून एक रचना केली आहे. तिला सर्व बाजूंनी रंग दिला आहे. आकृतीचे निरीक्षण करून पुढील प्रश्नांची उत्तरे द्या.



44. घनाकृतीत एकूण किती ठोकळे आहेत ?

- (1) 60 (2) 64  
(3) 54 (4) 50

45. चार बाजूंनी रंगवलेले ठोकळे किती आहेत ?

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

46. तीन बाजू रंगित असणारे किती ठोकळे आहेत ?

- (1) 4 (2) 6  
(3) 8 (4) 9

47. 'A' अक्षराने दाखवलेल्या ठोकळ्याच्या किती पृष्ठांनी इतर ठोकळ्यांच्या पृष्ठांना स्पर्श केला आहे. ?

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

Only for Rough Work

Q. 48 to 50 : Directions : Find the odd term.

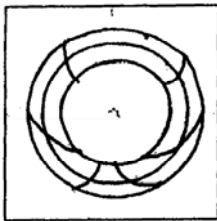
48. (1) 224 (2) 216  
(3) 264 (4) 232

49. (1)  $\frac{98}{112}$  (2)  $\frac{133}{154}$   
(3)  $\frac{119}{136}$  (4)  $\frac{154}{176}$

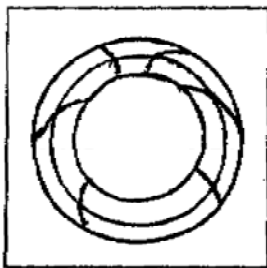
50. (1) 6921 (2) 651  
(3) 571 (4) 6741

Q. 51 : Directions : The question figure given below is held vertically on water surface. How will the reflection of the given figure in water look ? select the correct alternative.

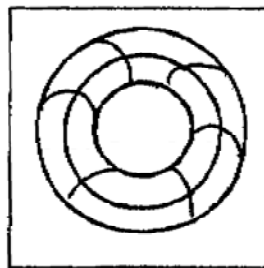
Question figure



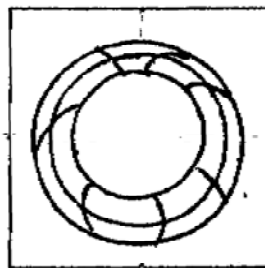
Answer figures



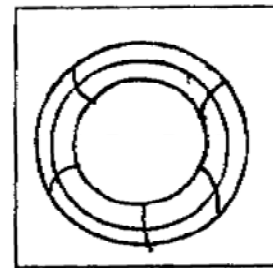
(1)



(2)



(3)



(4)

Only for Rough Work

प्र. 48 ते 50 : सूचना : विसंगत पद ओळखा.

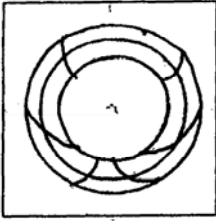
48. (1) 224 (2) 216  
(3) 264 (4) 232

49. (1)  $\frac{98}{112}$  (2)  $\frac{133}{154}$   
(3)  $\frac{119}{136}$  (4)  $\frac{154}{176}$

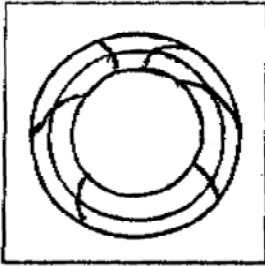
50. (1) 6921 (2) 651  
(3) 571 (4) 6741

प्र. 51 : सूचना : दिलेली प्रश्नआकृती पाण्याच्या पृष्ठभागावर उभी धरली असता तिचे पाण्यातील प्रतिबिंब कसे दिसेल ते पर्यायांतून शोधा.

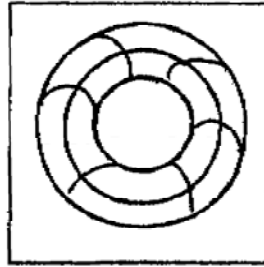
प्रश्न आकृती



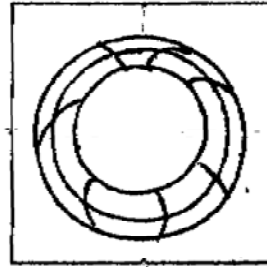
उत्तर आकृत्या



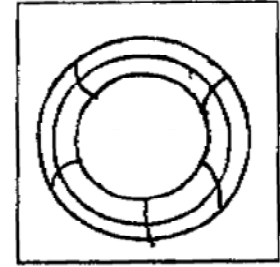
(1)



(2)



(3)



(4)

Only for Rough Work

**Q. 52 to 54 :** Directions : In the given questions there is a relation between column I and column II in a code language. By using the code language answer the following questions.

Column I	Column II
RIM	963
MALL	7547
RULE	1726
MORE	5362
BOOM	3835

52. MAIL = ?

- (1) 3486                      (2) 5497                      (3) 6479                      (4) 5387

53. BEAM = ?

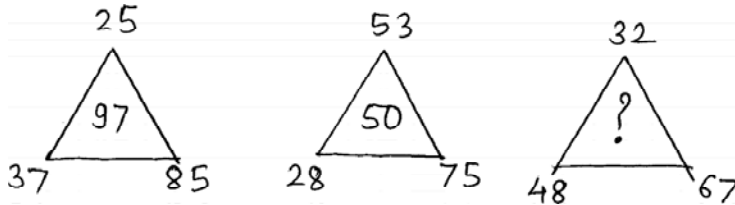
- (1) 3857                      (2) 8235                      (3) 8245                      (4) 5821

54. MORAL = ?

- (1) 53647                      (2) 56381                      (3) 53649                      (4) 57142

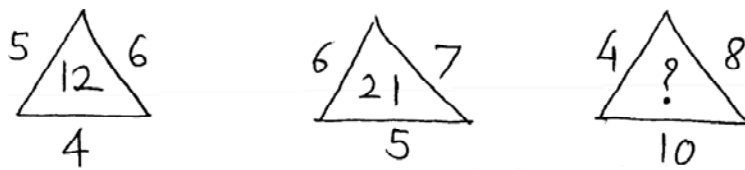
**Q. 55 & 56 :** Directions : Observe the following figure and choose from the alternatives which number will replace the question mark ?

55.



- (1) 73                      (2) 80                      (3) 83                      (4) 99

56.



- (1) 22                      (2) 30                      (3) 32                      (4) 36

Only for Rough Work

प्र. 52 ते 54 : सूचना : खालील प्रश्नांत स्तंभ I मध्ये कांही शब्द दिलेले आहेत आणि स्तंभ II मध्ये त्यांचे सांकेतिक अंक दिलेले आहेत पण ते स्तंभ I च्या शब्दातील अक्षरांच्या क्रमाने असतीलच असे नाही. ती सांकेतिक भाषा शोधून पुढील प्रश्नांची योग्य उत्तरे दिलेल्या पर्यायांतून शोधा.

स्तंभ I	स्तंभ II
RIM	963
MALL	7547
RULE	1726
MORE	5362
BOOM	3835

52. MAIL = ?

- (1) 3486                      (2) 5497                      (3) 6479                      (4) 5387

53. BEAM = ?

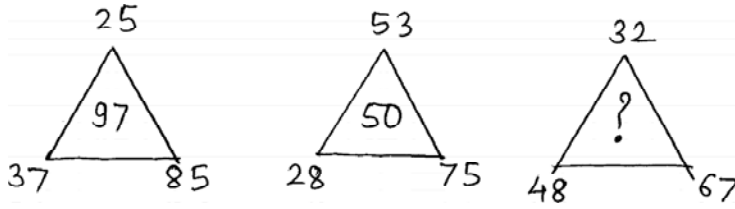
- (1) 3857                      (2) 8235                      (3) 8245                      (4) 5821

54. MORAL = ?

- (1) 53647                      (2) 56381                      (3) 53649                      (4) 57142

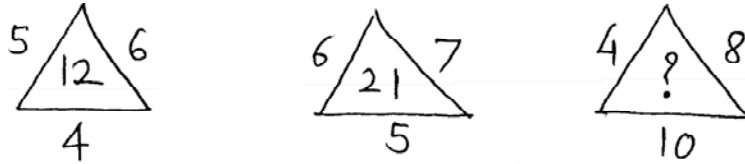
प्र. 55 ते 56 : सूचना : पुढील आकृतीत दिलेल्या संख्यांमध्ये एक विशिष्ट नियम आहे. तो ओळखून प्रश्नचिन्हाचे जागी योग्य पर्याय लिहा.

55.



- (1) 73                      (2) 80                      (3) 83                      (4) 99

56.



- (1) 22                      (2) 30                      (3) 32                      (4) 36

Only for Rough Work

**Q. 57 to 59 :** Directions : In each of the following questions write which word in sequence replaces the question mark

57. KSD, LRE, MQF, NPG, ?

- (1) OWH                      (2) OQF                      (3) ORJ                      (4) OOH

58. BC, EF, IJ, NO, ?

- (1) ST                      (2) TU                      (3) UV                      (4) RS

59. DG 11, JM 23, PS 35, ?

- (1) YX 49                      (2) TY 45                      (3) UX 45                      (4) VY 47

**Q. 60 to 62 :** Directions : In the following questions a specific group is given. From the given alternatives find out the right term which matches the given group.

60. 17PR WY24 DF5

- (1) ST18                      (2) 9HK                      (3) BE4                      (4) 13LN

61. XT RN FB

- (1) NK                      (2) OK                      (3) BJ                      (4) SP

62. CKT NQD BLT

- (1) XFD                      (2) DGH                      (3) LRH                      (4) MKT

**Q. 63 & 64 :** Directions : A rhythmic arrangement of alphabets is given. The missing letter alphabets appear in the same order in one of the alternative answer. Find the correct alternative.

63. a\_ba\_\_ab\_aaab\_a

- (1) aaaaa                      (2) ababa                      (3) abbab                      (4) babab

64. cccbb\_aa\_cc\_bbbaa\_c

- (1) acbc                      (2) baca                      (3) baba                      (4) acba

Q. 65 : Rahul is elder than Jayesh by 312 days. In an ordinary year Jayesh's 14<sup>th</sup> birthday falls on wednesday then on which day Rahul's 14<sup>th</sup> birthday will be ?

- (1) Tuesday                      (2) Thursday                      (3) Friday                      (4) Saturday

Only for Rough Work



प्र. 57 ते 59 : सूचना : क्रमाने कोणते पद येईल ?

57. KSD, LRE, MQF, NPG, ?

- (1) OWH (2) OQF (3) ORJ (4) OOH

58. BC, EF, IJ, NO, ?

- (1) ST (2) TU (3) UV (4) RS

59. DG 11, JM 23, PS 35, ?

- (1) YX 49 (2) TY 45 (3) UX 45 (4) VY 47

प्र. 60 ते 62 : सूचना : पुढील प्रश्नांत अक्षरांचा एक विशिष्ट गट दिलेला आहे. त्या गटांशी जुळणारा योग्य पर्याय निवडा.

60. 17PR WY24 DF5

- (1) ST18 (2) 9HK (3) BE4 (4) 13LN

61. XT RN FB

- (1) NK (2) OK (3) BJ (4) SP

62. CKT NQD BLT

- (1) XFD (2) DGH (3) LRH (4) MKT

प्र. 63 व 64 : सूचना : अक्षरांच्या लयबद्ध मांडणीचा अभ्यास करून रिकाम्या जागी अनुक्रमे कोणती अक्षरे येतील ?

63. a\_ba\_\_ab\_aaab\_a

- (1) aaaaa (2) ababa (3) abbab (4) babab

64. cccbb\_aa\_cc\_bbbaa\_c

- (1) acbc (2) baca (3) baba (4) acba

प्र. 65 : राहुल जयेशपेक्षा 312 दिवसांनी मोठा आहे. सामान्यवर्षी जयेशचा 14 वा वाढदिवस बुधवारी आला तर राहुलचा 14 वा वाढदिवस कोणत्या वारी आला असेल ?

- (1) मंगळवार (2) गुरुवार (3) शुक्रवार (4) शनिवार

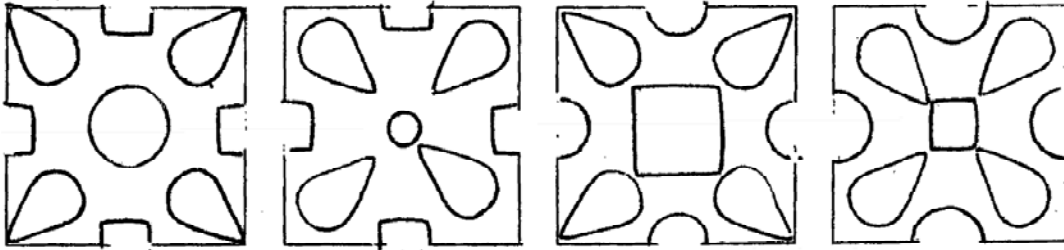
Only for Rough Work

**Q. 66 & 67 :** Directions : A square piece of paper is folded and cut at specific spots as shown in the figure. The paper when unfolded will look like as shown in one of the alternatives. Select the correct alternative.

66. Question figure



Answer figures



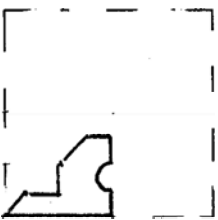
(1)

(2)

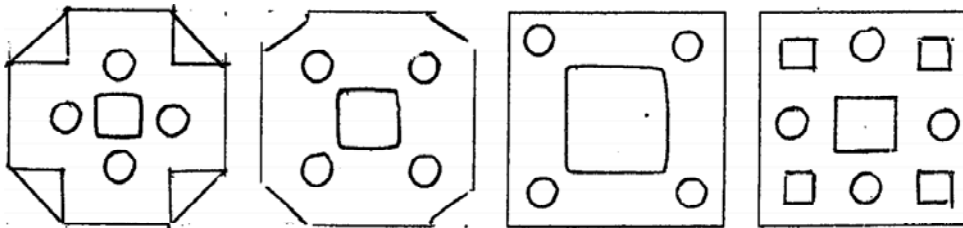
(3)

(4)

67. Question figure



Answer figures



(1)

(2)

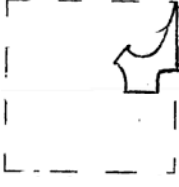
(3)

(4)

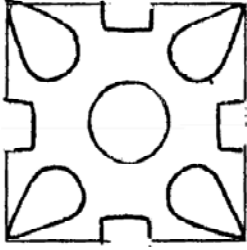
Only for Rough Work

प्र. 66 व 67 : सूचना : एका चौरसाकृती कागदाला घड्या घालून तो विशिष्ट ठिकाणी कापलेला प्रश्नआकृतीत दाखविला आहे. ती कागदाची घडी उलगडल्यानंतर कशी दिसेल ते योग्य पर्यायाने लिहा.

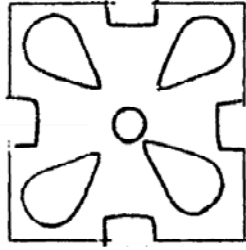
66. प्रश्न आकृती



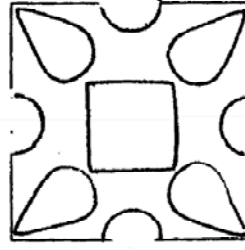
उत्तर आकृत्या



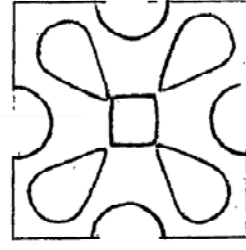
(1)



(2)

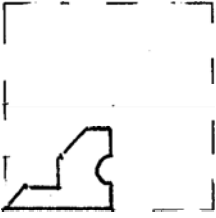


(3)

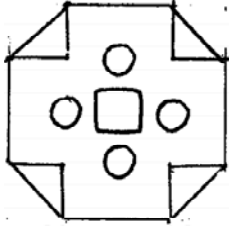


(4)

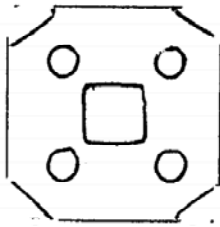
67. प्रश्न आकृती



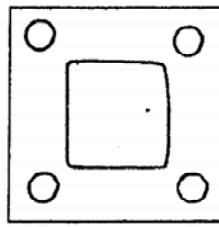
उत्तर आकृत्या



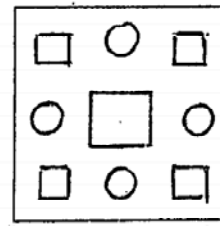
(1)



(2)



(3)



(4)

Only for Rough Work

Q. 68 : Mahesh went 18km. to East on bicycle from his house. Then he turned right and travelled 3km. Again he turned right and travelled 6km. At the end he turned left and travelled 6km. Now how far Mahesh is from his house and in which direction ?

- (1) South–East, 15km. (2) South–West, 20km.  
 (3) North–East, 21km. (4) South 15km.

**Q. 69 to 71 :** Direction : In the following questions there is a specific relation between the first and the second number. The same relationship exists between the third and the fourth number which will replace the question mark. Select the correct alternative from the given alternatives.

69. 121 : 15 :: 232 : ?

- (1) 48 (2) 16 (3) 14 (4) 49

70. 738 : 11 :: 966 : ?

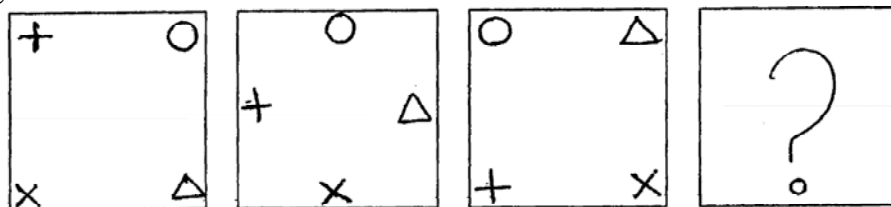
- (1) 15 (2) 22 (3) 16 (4) 17

71. 2 : 0.008 :: 3 : ?

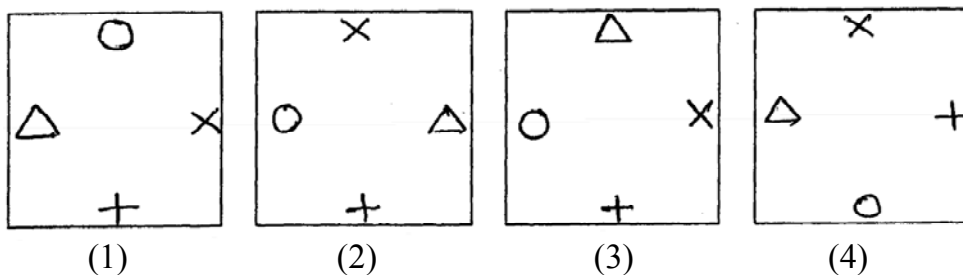
- (1) 27 (2) 0.27 (3) 0.027 (4) 0.0027

**Q. 72 to 74 :** 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 ?

72. Question figures



Answer figures



Only for Rough Work

प्र. 68 : महेश त्याच्या घरापासून पूर्वेला 18 कि.मी. सायकलवर गेला. तेथून उजवीकडे वळून 3 कि.मी. व पुन्हा उजवीकडे वळून 6 कि.मी. अंतर त्याने कापले. शेवटी डावीकडे वळून त्याने 6 कि.मी. अंतर कापले तर महेश घरापासून कोणत्या दिशेला व किती अंतरावर आहे ?

- (1) आग्नेय, 15 कि.मी. (2) नैऋत्य, 20 कि.मी.  
(3) ईशान्य, 21 कि.मी. (4) दक्षिण, 15 कि.मी.

प्र. 69 ते 71 : सूचना : पुढील प्रश्नात पहिल्या संख्येचा दुसऱ्या संख्येशी जसा संबंध आहे तसाच संबंध तिसऱ्या व चौथ्या संख्यांमध्ये आहे. तो संबंध शोधून प्रश्नचिन्हाच्या जागी योग्य पर्याय निवडा.

69.  $121 : 15 :: 232 : ?$

- (1) 48 (2) 16 (3) 14 (4) 49

70.  $738 : 11 :: 966 : ?$

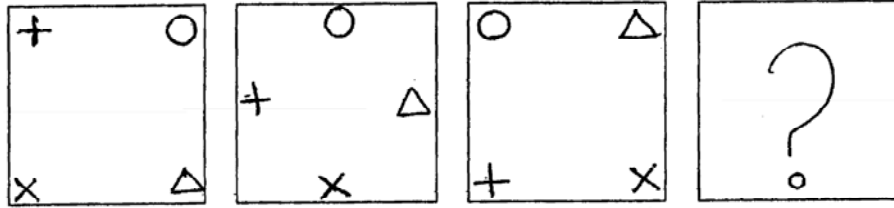
- (1) 15 (2) 22 (3) 16 (4) 17

71.  $2 : 0.008 :: 3 : ?$

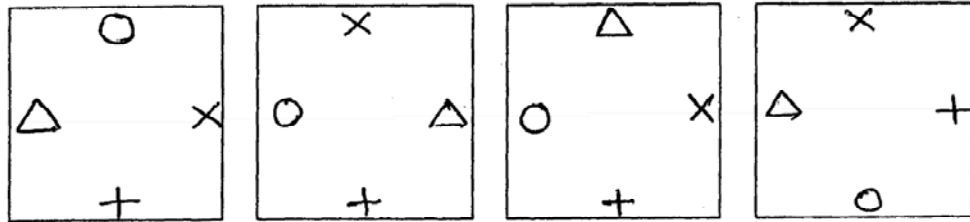
- (1) 27 (2) 0.27 (3) 0.027 (4) 0.0027

प्र. 72 ते 74 : सूचना : खालील प्रत्येक प्रश्नात प्रश्नआकृत्या एका विशिष्ट क्रमाने बदलतात. त्याच क्रमाने प्रश्नचिन्हाच्या जागी कोणती आकृती येईल ते योग्य पर्यायाने दर्शवा.

72. प्रश्न आकृत्या



उत्तर आकृत्या



(1)

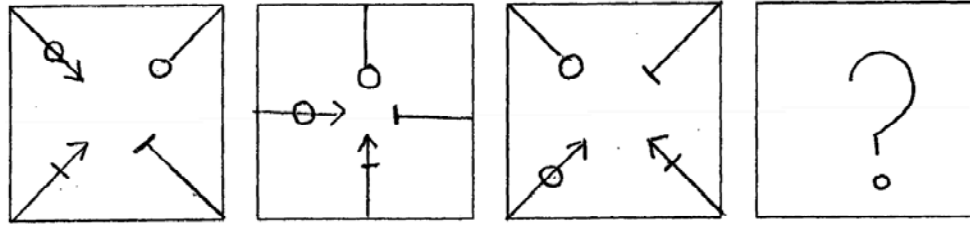
(2)

(3)

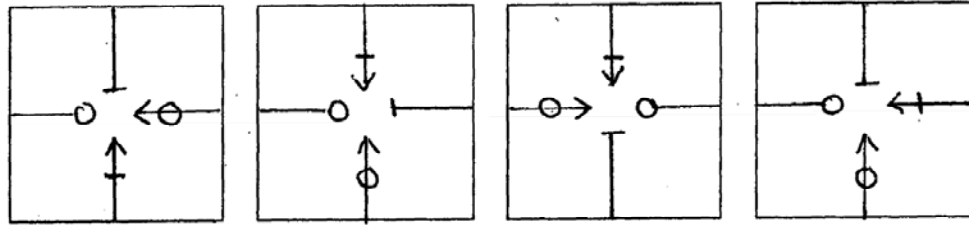
(4)

Only for Rough Work

73. Question figures



Answer figures



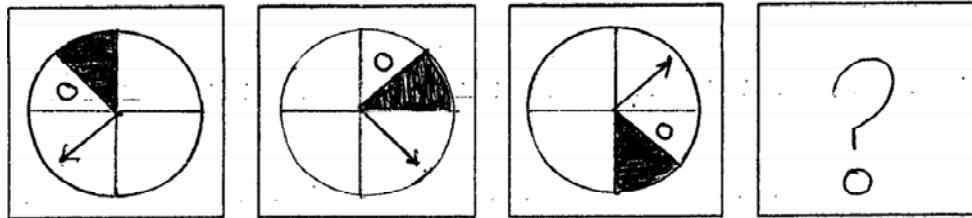
(1)

(2)

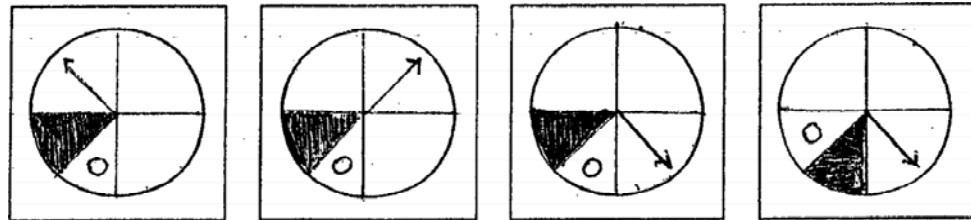
(3)

(4)

74. Question figures



Answer figures



(1)

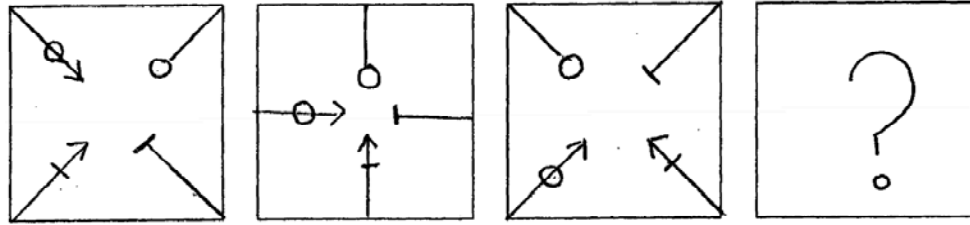
(2)

(3)

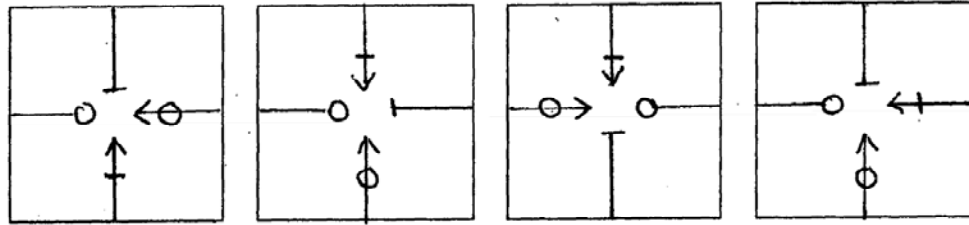
(4)

Only for Rough Work

73. प्रश्न आकृत्या



उत्तर आकृत्या



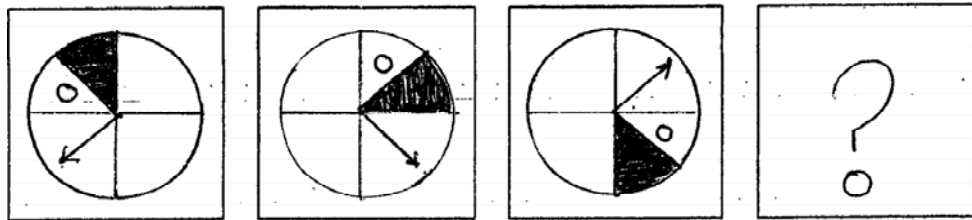
(1)

(2)

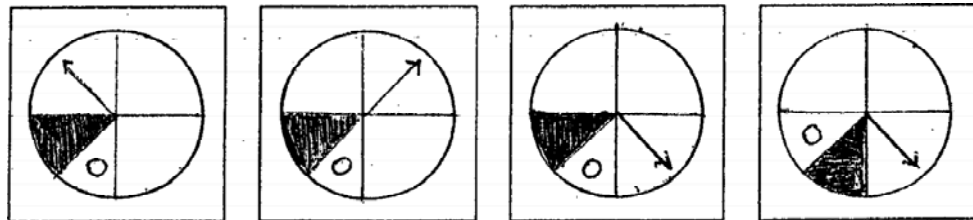
(3)

(4)

74. प्रश्न आकृत्या



उत्तर आकृत्या



(1)

(2)

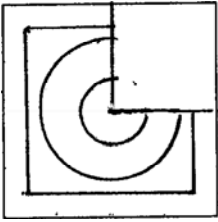
(3)

(4)

Only for Rough Work

75 : Directions : In the following question the given figure is incomplete. Select the correct alternative which can complete the figure.

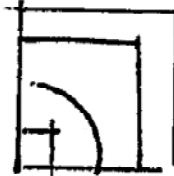
Question figure



Answer figures



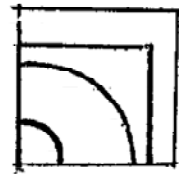
(1)



(2)

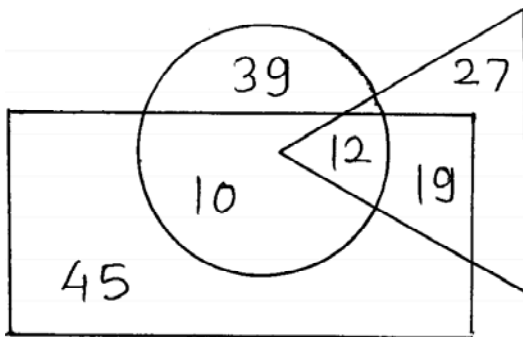


(3)



(4)

Q. 76 to 78 : Directions : Observe the Venn diagram and answer the questions that follow.



- = Farmer
- = Engineer
- = Photographer

76. How many Engineers are doing farming ?

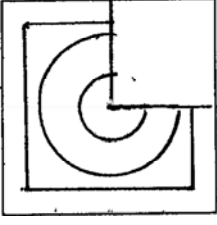
- (1) 29
- (2) 12
- (3) 31
- (4) 22

Only for Rough Work



75 : सूचना : अपूर्ण आकृति पूर्ण होण्यासाठी योग्य पर्याय निवडा.

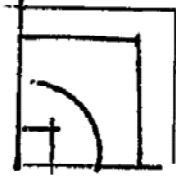
प्रश्न आकृती



उत्तर आकृत्या



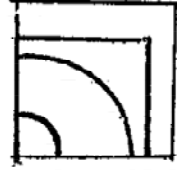
(1)



(2)

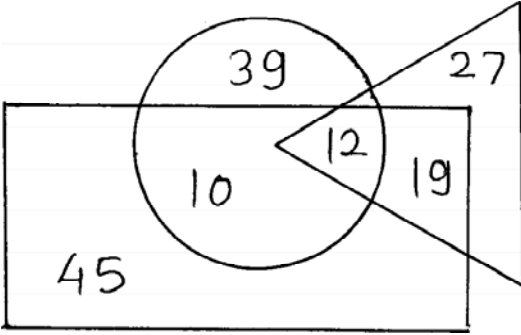


(3)



(4)

प्र. 76 ते 78 : सूचना : दिलेल्या वेन आकृतीचे निरीक्षण करुन खालील प्रश्नांची उत्तरे दिलेल्या पर्यायातून शोधा.



○ = शेतकरी  
△ = इंजिनियर  
□ = फोटोग्राफर

76. किती इंजिनियर शेती करतात ?

(1) 29

(2) 12

(3) 31

(4) 22

Only for Rough Work

77. How many Farmers are Photographers ?  
(1) 41 (2) 12  
(3) 22 (4) 10
78. How many Engineers are there who are not Photographers ?  
(1) 66 (2) 27  
(3) 39 (4) 46

**Q. 79 to 82 :** Directions : Identify by which rule the following numbers perform a set.

Option Rule

- (1) Obtain the square of a number and add twice the number.  
(2) Half of a square of number.  
(3) Subtract the number from the cube of that number.  
(4) Add three to five times of the number.

79. 24 48 80 15

80. 43 23 28 18

81. 200 72 162 50

82. 210 24 336 60

**Q. 83 & 84 :** Directions : Sangeeta, Namita and Neeta like 'Rose' flower. Except Sarita all like 'Kevada'. Only Radha and Neeta like 'Chapha'. Except Sangeeta and Radha other love 'Mogra'. Answer the following questions.

83. Which flower Namita does not like ?  
(1) Rose (2) Mogra  
(3) Chapha (4) Kevada

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77. किती शेतकऱ्यांना फोटोग्राफी येते ?

- (1) 41 (2) 12  
(3) 22 (4) 10

78. फोटोग्राफी न येणारे इंजिनियर किती ?

- (1) 66 (2) 27  
(3) 39 (4) 46

प्र. 79 ते 82 : सूचना : खाली एक नियमांचा संच दिलेला आहे. हे नियम खालील संख्यासंचाना लागू होतात. प्रत्येक प्रश्नांमधील संख्येच्या गटाचा नियम शोधून काढा.

- (1) संख्येचा वर्ग करून त्यात संख्येची दुप्पट मिळवा.  
(2) संख्येचा वर्ग करून त्याचे निम्मे करा.  
(3) संख्येचा घन करून त्यातून ती संख्या वजा करा.  
(4) संख्येची पाच पट करून त्यात तीन मिळवा.

79. 24 48 80 15

80. 43 23 28 18

81. 200 72 162 50

82. 210 24 336 60

प्र. 83 ते 84 : सूचना : संगीता, नमिता, नीता यांना गुलाब आवडतो. सरिता व्यक्तिरिक्त सर्वाना केवडा आवडतो. चाफा फक्त नीता व राधाला आवडतो. संगिता व राधा व्यक्तिरिक्त इतरांना मोगरा आवडतो. तर पुढील प्रश्नांची उत्तरे द्या.

83. कोणते फूल नमिताला आवडत नाही ?

- (1) गुलाब (2) मोगरा  
(3) चाफा (4) केवडा

Only for Rough Work

84. Name the flower which sangeeta likes but not Radha ?

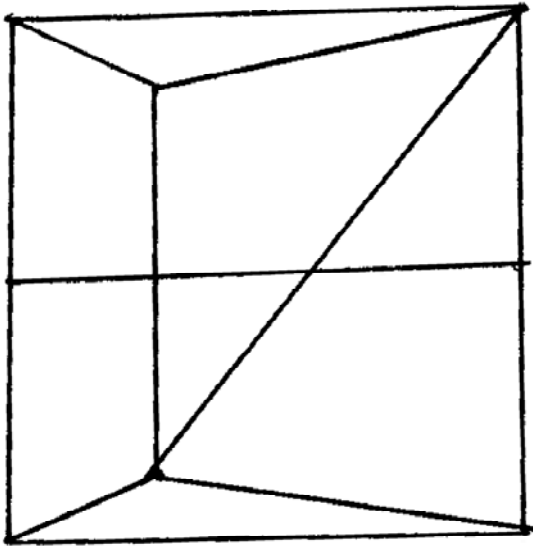
(1) Kevada

(2) Rose

(3) Chapha

(4) Mogra

**Q. 85 & 86 :** Directions : Observe the following figure and answer the following questions.



85. What is the total number of triangles in the figure.

(1) 5

(2) 6

(3) 8

(4) 10

86. Find the number of trapeziums in the figure.

(1) 5

(2) 6

(3) 7

(4) 8

Only for Rough Work

84. संगीताला आवडते मात्र राधाला आवडत नाही असे फूल कोणते ?

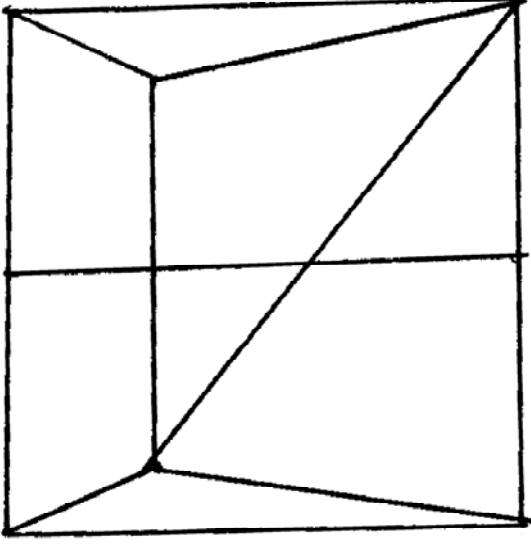
(1) केवडा

(2) गुलाब

(3) चाफा

(4) मोगरा

प्र. 85 ते 86 : सूचना : सोबतच्या आकृतीचे निरीक्षण करून पुढील प्रश्नांसाठी योग्य पर्याय निवडा.



85. त्रिकोणांची एकूण संख्या किती आहे ?

(1) 5

(2) 6

(3) 8

(4) 10

86. आकृतीमधील समलंब चौकोनांची संख्या किती आहे ?

(1) 5

(2) 6

(3) 7

(4) 8

Only for Rough Work

**Q. 87 to 90 :** Directions : Find the odd term.

87. (1) EP (2) JK  
(3) MH (4) NF
88. (1) CDL (2) DET  
(3) LBW (4) DFX
89. (1) MPS (2) NRV  
(3) LOR (4) EHK
90. (1) GOH (2) CXT  
(3) KXM (4) RVD

Only for Rough Work

प्र. 87 ते 90 : सूचना : विसंगत पद शोधा.

87. (1) EP (2) JK  
(3) MH (4) NF
88. (1) CDL (2) DET  
(3) LBW (4) DFX
89. (1) MPS (2) NRV  
(3) LOR (4) EHK
90. (1) GOH (2) CXT  
(3) KXM (4) RVD

Only for Rough Work

