

MENTAL ABILITY TEST

(For Students of Class X)

Time:120 Minutes Max. Marks: 100 **INSTRUCTIONS TO CANDIDATES**

Read the following instructions carefully before you open the Test booklet.

- Answers are to be given on a separate OMR 1. sheet.
- Please follow the instructions given on the 2. OMR sheet for marking the answers.
- Write your eight-digit Roll Number as allotted 3. to you in the admission card very clearly on the test-booklet and darken the appropriate circles on the OMR sheet as per instructions given.
- Write down and darken Test Booklet Number in 4. the appropriate circles on the OMR sheet as per instructions given.
- There are 100 questions in this test. All are 5. compulsory.
- Since the time allotted for this question paper is 6. very limited you should make the best use of it by not spending too much time on any one question.
- Rough work can be done anywhere in the Test 7. 7. booklet but not on the OMR sheet/loose paper.
- Each correct answer will be awarded one mark. 8.
- 9. THERE WILL BE NO NEGATIVE MARKING.
- 10. Please return only the OMR sheet to the invigilator after the test.
- English version of the question paper will be 11. considered as final in case of any dispute arising out of variation in translated version. PLEASE TURN OVER THE PAGE AND START **YOUR WORK**

बोद्रिक योग्यता परीक्षा

(कक्षा X के विद्यार्थियों के लिए)

समय: 120 मिनट अधिकतम अंकः 100 परीक्षार्थियों के लिए अनुवेश

प्रश्न-पुस्तिका खोलने से पहले, निम्नलिखित अनुदेशों को ध्यान से पढिए।

- 1. उत्तर एक अलग ओएमआर-पत्र में देने हैं।
- कपया उत्तर चिह्नित करने के लिए ओएमआर-पत्र पर 2. दिए गए अन्वेशों का अन्पालन कीजिए।
- दिए गए निर्देशों के अनुसार आपके प्रवेश पत्र पर दिए गए 3. अपने आठ-अंकीय रोल नंबर को प्रश्न-पुस्तिका और ओएमआर-पत्र पर बिलकुल स्पष्ट रूप से लिखिए और उपयुक्त गोलों को काला कीजिए।
 - दिए गए निर्देशों के अनुसार **ओएमआर-पत्र** पर प्रश्न-पुस्तिका संख्या लिखिए और उपयुक्त गोलों को काला कीजिए।
- इस परीक्षा में 100 प्रञ्न हैं। सभी प्रश्न अनिवार्य हैं। 5.
- चैंकि इस प्रश्न-पत्र के लिए निर्धारित समय बहुत सीमित 6. है, इसीलिए इसका सर्वोत्तम उपयोग कीजिए और किसी एक प्रश्न पर बहुत अधिक समय न लगाइए।
 - रफ कार्य प्रश्न-पुस्तिका में कहीं भी किया जा सकता है, किंतु ओएमआर-पत्र /अलग कागज पर नहीं।
- प्रत्येक सही उत्तर के लिए एक अंक प्रदान किया जाएगा। 8.
- 9. गलत उत्तर के लिए कोई अंक काटा नहीं जाएगा।
- कृपया परीक्षा के पश्चात केवल ओएमआर-पत्र ही 10. निरीक्षक को वापस कीजिए।
- अनुवादित संस्करण में अंतर से उठे किसी भी विवाद की स्थिति 11. में, प्रश्न-पत्र के अंग्रेजी संस्करण को निर्णायक माना जाएगा।

जैसे ही आपसे कहा जाए, वैसे ही कृपया पृष्ठ पलटिए और अपना कार्य आरंभ कीजिए।

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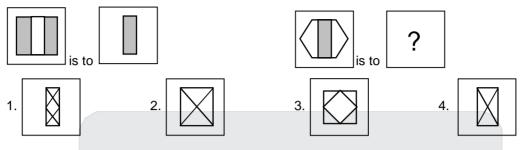


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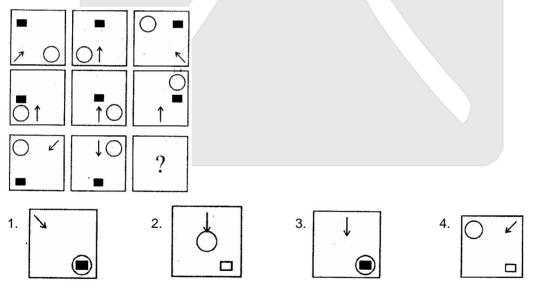
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MENTAL APTITUDE TEST (MAT)_PAPER

1. Which figure completes the statement ?



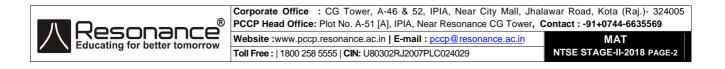
- Fact 1 : Ranveet said, "Mehar and 1 both have goats."
 Fact 2 : Mehar said, "I don't have a goat."
 Fact 3 : Ranveet always tells the truth, but Mehar sometimes lies.
 If the three statements are facts, which of the following statements must also be facts ?
 I. Mehar has a goat.
 II. Ranveet has a goat III. Mehar is lying
 1. II only
 2. I and II only
 3. I, II and III
 4. II and III only
- **3.** Look at the patterns in the squares and understand their relationship to one another so as to fill in the square with missing symbols.



4. Danish starts walking straight towards East. After walking 75 m, he turns to the left and walks 25 m straight. Again he turns to the left, walks a distance of 40 m straight again he turns to the left and walks a distance of 25 m.

How far is he from starting point

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1. 30 m 2. 35 m 3. 40 m 4. 50 m
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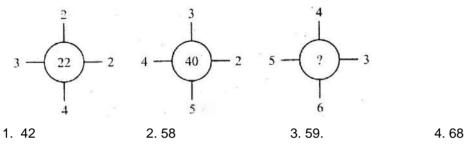


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 In the question given below, there are four statements which are to be taken as truth even if they do not seem to be so. There are conclusions numbered, I, II, III and IV. Decide which of these logically follow from the given statements.

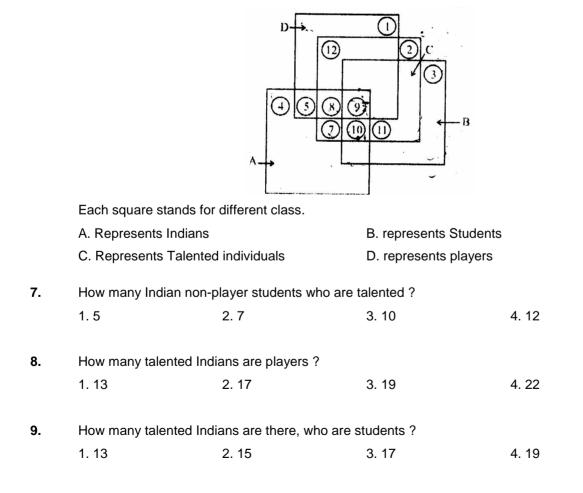
All students who like English also like Mathematics. Some students like Hindi. All students who like Hindi do not like Mathematics students who like Mathematics also like English.

4. III and IV

- I. Students who like Hindi also like English
- II. Students who like Mathematics also like Hindi
- III. Students who like Mathematics do not like Hindi
- IV. Students who like English do not like Hindi
- 1. I and II 2. I and III 3. I and IV
- 6. The number in the place of '?'should be

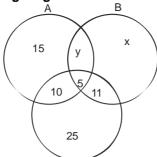


Direction (7-9) : Answer these questions by using the following diagram.





Direction (10-11) : Study the following diagram



A : Representing people who read newspaper A

- B : Representing people who read newspaper B
- C : Representing people who read newspaper C

Based on the above information answer the question 10-11

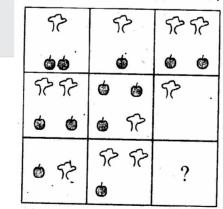
- 10.If the number of people in B is 10 more than A, What is the total number of people in only B (i.e. in B but not in A or C)?1. 142. 243. 304. 36
- 11. If sum of the number of people in only B and the number of people common in both A and B is 63 and the number of people in B is twice the number of people in A, then the values of x and y are respectively.
 1. 15,4
 2. 48,5
 3. 51,7
 4. 51,8
- **12.** In the question given below, some argument / arguments is/ are logical and others are not. Identify the logical argument/arguments.

I. Eating lots of vegetables and fruits increases immunity I eat lots of vegetables and fruits, so my immunity is high.

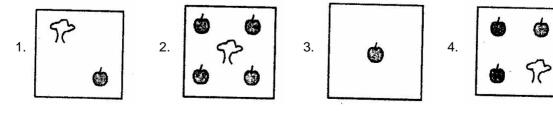
II. Eating lots of vegetables and fruits increases immunity, I do not eat vegetables and fruits, so my immunity is low.

III. Eating lots of vegetables and fruits increases immunity, My immunity is low which means I don't eat fruits and vegetables

- 1. only I 2. I and II 3. I and III 4. II and III
- **13.** Consider the following figure



Which of the following alternatives should replace the question mark ?

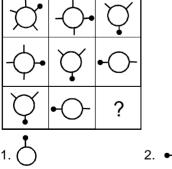




Resonance

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| 14. | Find out the water ima A V P U 7 4 3 6 1. V A B C 3 4 3 6 | • | 3. A V b f 2 4 3 9 | 4. AVbN 436 |
|-----|--|---|--|--|
| 15. | from the bottom and re at 6 am and goes back above situation the foll I. It is not possib II. It is possible to only if he trave III. It is always po irrespective of | eaches the tope at 6 pn c following exactly the solowing possibilities are to le to find a point on the po find a point on the rou els on each day with unit possible to find a point or his speed of travel. | n of the same day on 16 ame route and reaches th o be analysed. route which he will cross te which he will cross at t form speed. In the route which he will | tts at 6 am of 15 th October, 2017 Oct., 2017 he starts from the top he bottom at 6 pm. Based on the at the same time each day. the same time each day provided cross at the same time each day 4. Both I and II are true |
| 16. | | ght the long and short hing hand overtakes the | | er. Between noon and midnight, |
| | 1.9 | 2. 10 | 3. 11 | 4. 12 |
| 17. | If MENTAL : SMXFOB 1. GJSXWJQ | then ABILITY : 2. GSXWJJQ | 3. SGXWJJQ | 4. SJXQJWG |
| 18. | | AILSARME, as HYDER 2. HYDRBEDAA | | 4. HYDEADRAB |
| 19. | Which of the following AZ, GT, MN, ? , YB | alternatives will fit in the | e place of '?' ? | |
| | 1. KF | 2. RX | 3.SH | 4. TS |
| 20. | Look at this series : J14, L16,, P20, F Which of the following 1. N18 | R22 alternatives will fit in the 2. S24 | e blank space ? 3. M18 | 4. T24 |
| 21. | What will be the missir | ng term in the given seq | uence? | |
| | ACC,, CEO, DF 1. BDD | | 3. BDH | 4. BED |
| | | | 5. 6011 | 4. DED |
| 22. | Which number comes 64, 57, 66, 55, ? 52 | in place of '?' ? | | |
| | 1. 68 | 2.69 | 3. 70 | 4. 71 |
| 23. | Select the suitable figure | ure from the given altern | atives to complete the fig | jure. |



24. Arrange the given words in a meaningful sequence and find the correct sequence from the given options :

 A) Wall
 B) Clay
 C) House
 D) Room
 E) Bricks

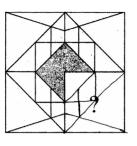
 1. E, B, A, D, C
 2. B, E, D, A, C
 3. B, E, A, D, C
 4. A, B, C, D, E

з. Ф

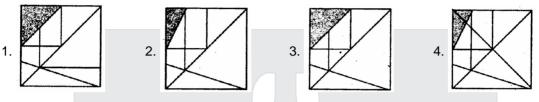
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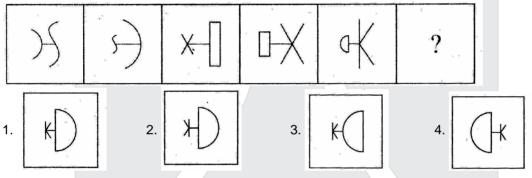
25. Identify the figure that completes the pattern.



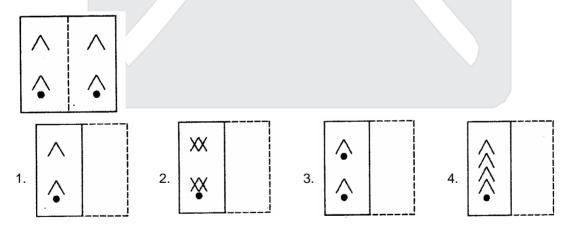
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26. Replace '?' by the appropriate figure from the given options.



27. When a square shaped transparent sheet with the pattern shown in the figure is folded along the dotted line which pattern would appear?



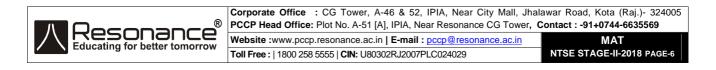
28. Fact 1 : All monkeys like to jump. Fact 2 : Some monkeys like to swim.

Fact 3 : Some monkeys look like their masters.

If the first three statements are facts, which of the following statements must also be a fact (s) ? I. All monkeys who like to swim look like their masters.

- All monkeys who like to swim look like their r
 Monkeys who like to swim also like to jump.
- III. Monkeys who like to jump do not look like their masters.

1. I only 2. II only 3. II and III 4. Both I and II



29. Given below is a statement followed by two assumptions. The population below poverty line has increased in urban area during the last year.
Assumptions :

The population below poverty line has decreased in rural area.
The population below poverty line has not increased during the current year.
Which of the assumptions is implicit in the statement ?

Only I is implicit.
Either I or II is implicit.

30. Identify the conclusion(s) which logically follow(s) from the given statements

30. Identify the conclusion(s) which logically follow(s) from the given statements

 A. Some men are educated.
 B. Educated men prefer small families
 Conclusions:

 I All small families are educated,
 II. Some men prefer small families.

- 1. Only conclusion I follows.
 - 3. Both I and II follow.

- 2. Only conclusion II follows
- 4. Neither I nor II follows
- **31.** A watch is showing right time at 9 pm. This watch gains 10 minutes in every 24 hours. What will be the time shown next day by the watch when the correct time is 2 am ?

1. 02:00:24 am2. 02 :00:48 am3. 02:02:05 am4. 02:02:30 am

32. In a school, students are offered subjects in such a manner that they have to choose at least one subject from History, and Geography. Accordingly :
All students who study History also study Geography logically implies:
I. There are no students who study Geography and do not study History.
II There are no students who study History and do not study Geography.

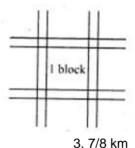
III. There are no students who do not study History and do not study Geography.

IV. All students who do not study Geography are students who study History.

1. | and || 2. | and || 3. || and || 4. || and |V

33. In a city, all the roads are either parallel to the East-West or North-South direction. Every $\frac{1}{8}$ th of a

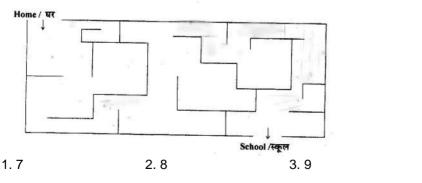
kilometre from each road there is a crossing and the square area covered between four crossings is called a block. Staring from a crossing. if I travel four blocks north. take left and then travel three blocks west. I reach another crossing. What is the distance between these two crossings ?



4. 5/8 km

34. How many minimum right turns will you take to reach school from home ?

2.7 km





1.5 km

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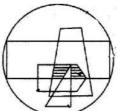
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4.10

35. The figure shows the Gender, Marital Status and Profession (GMP) of a number of people. Each shape shows a different GMP.



Circle indicates total population, trapezium is males, pentagon is married, rectangle is teachers, and triangle is doctors.

What do the shaded regions represent in the diagram ?

- 1. married males who are teachers
- 2. unmarried males who are doctors
- 3. unmarried females who are doctors
- 4. married males who are neither doctors nor teachers

Directions (Questions 36-38)

Each of integers 1 to 26 is represented in the Venn diagram in the appropriate regions P to W where region

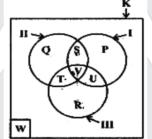
K represents integers fiom 1 to 26.

I represents even integers from 1 to 26.

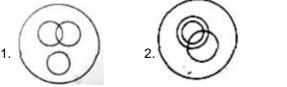
Il represents perfect square integers from 1 to 26.

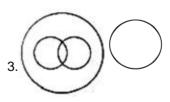
III represents prime numbers from 1 to 26.

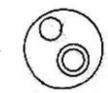
W represents numbers from 1 to 26 other than those in I. II and III



- **36.**Which region contains exactly two integers?
1. P and W only2. R and U only3. S and W only4. U and W only
- 37.The total number of integers in S and R is equal to the number of integers in
1. P only2. T only3. V only4. W only
- **38.**Which region contains exactly eight integers ?1. P2. Q3. R4. S
- **39.** In a school, commerce and arts subjects were offered. Some students opted only for commerce and some only arts. There were science students also who did not choose any of these subjects. the rest of them accepted both commerce and arts. Which one of the following Venn diagram correctly reflects this situation?







Δ

40. A person walked 100m straight from the point 'A' in the North-East direction, walked 200m in South-West direction from there, 100m in North-East direction again, walked 100m eastward, 200m southward and 100m westward to reach at the point 'B'. Choose the right answer from the following to find out his/her distance and direction from 'A'.
1. 100m, North
2. 100m, South
3. 200m, North
4. 200m, South

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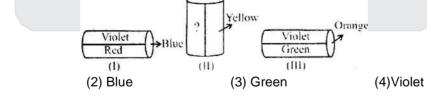
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|--------|---|--|-----------------------------------|---|--|--|
| Direct | ections (Questions 41- 44) Items 41-44, each contains a questions of two statements I and II, giving certain data. Select the correct answer from (1) to (4) depending on the sufficiency to data given in the statements to answer each questions. 1. If I alone is sufficient and II alone is not sufficient to answer the question. 2. If II alone is sufficient and I alone is not sufficient to answer the questions. 3. If both I and II together are sufficient but neither statement alone is sufficient to answer the questions. 4. If both I and II together are not sufficient to answer the question and additional data specific to the questions are needed. | | | | | |
| 41. | I. A has Rs. 60 more | ey with them in the ratio 5 than C s 40% less than the mor 2. (2) | | ey does B have? 4. (4) | | |
| 42. | | and 5 pencils is Rs.30. | educed by 40%, then the 3. (3) | e cost of 12 pens and 10 pencils 4. (4) | | |
| 43. | What is the ratio of sa I. The ratio of income II. The ratio of expen 1 (1) | | 3. (3) | 4. (4) | | |
| 44. | I. The cost price of ar | e selling prices of two ar ticle A is equal to the sell selling A is equal to $\frac{1}{5}$ of | ing price of B. | | | |
| | 1 (1) | 2. (2) | 3. (3) | 4. (4) | | |
| 45. | | STAR = 50 and CIRUS = 2. 78 | | | | |
| 46. | | m clock on the table in s e minute hand point at 9 : 2. South | | the hour hand points to North. In 4. West | | |
| 47. | | sunset two friends Rajni it side, to which direction 2. North east | | face to face. If Sanjiv's shadow 4. South east | | |
| 48. | 8. The square boxes in the figures below are to be painted with different colours such that no two adjacent boxes (even diagonally) have same colour. How many minimum colours do you need in each case? | | | | | |
| | 1. (3, 4) | 2. (4, 4) | 3. (4, 5) | 4. (3, 5) | | |
| 49. | What is the number in 2Y23, 3V19, 5V17, 7T 1. 13T7 | | 3. 13W9 | 4. 13U7 | | |
| 50. | Identify which number 156, 182, 210, 240, 25 1. 182 | does not fit in the seque 32, 306 2. 210 | nce ? 3. 282 | 4. 306 | | |
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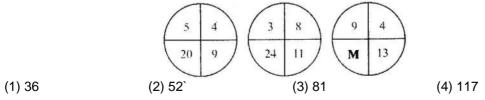
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| 八民 | | | SEARCH EXAMINATION-2 | 2018 NTSE STAGE-II 13-05-2018 |
|--------|--|--|---------------------------------------|---|
| 51. | What is the number i 6,15,35, ? , 143, 221 | | | |
| | (1) 45 | (2) 65 | (3) 77 | (4) 93 |
| 52. | | | | numbers appearing on the faces ald 106 and 52. What will the third |
| | | 8 4 5 | 4 6 5 | |
| | (1) 100 | (2) 113 | (3) 130 | (4) 145 |
| 53. | Which group of letter a _ t t a _ a n t _ a n | r given in the alternatives _ n t _ a n | will complete the sequer | nce ? |
| | (1) atntt | (2) n n t a t | (3) n a n t t | (4) t n t a t |
| Direct | sitting opposite to Y | is sitting in such a way the | next to Silva, Nazelii is | er of a hexagonal table . Ninong is sitting opposite to Silva, but not |
| 54. | Who is sitting opposi (1) Yaangba | ite to Ribiya ? (2) Silva | (3) Talyang | (4) Nazeli |
| 55. | Who is sitting betwee (1) Yaangba | en Ribiya and Ninong ? (2) Nazeli | (3) Talyang | (4) Silva |
| 56. | Who is sitting betwee (1) Nazeli | en Talyang and Yaangba (2) Ribiya | ? (4) Ninong | (4) Silva |
| 57. | If Talyang sits to the (1) Ribiya | right of Ninong, who is or (2) Nazeli | n the left of Ninong ? (3) Yaangba | (4)Silva |
| 58. | | in 6 colours – violet , Repollows. Looking at these fi | gures, identify the correct | |

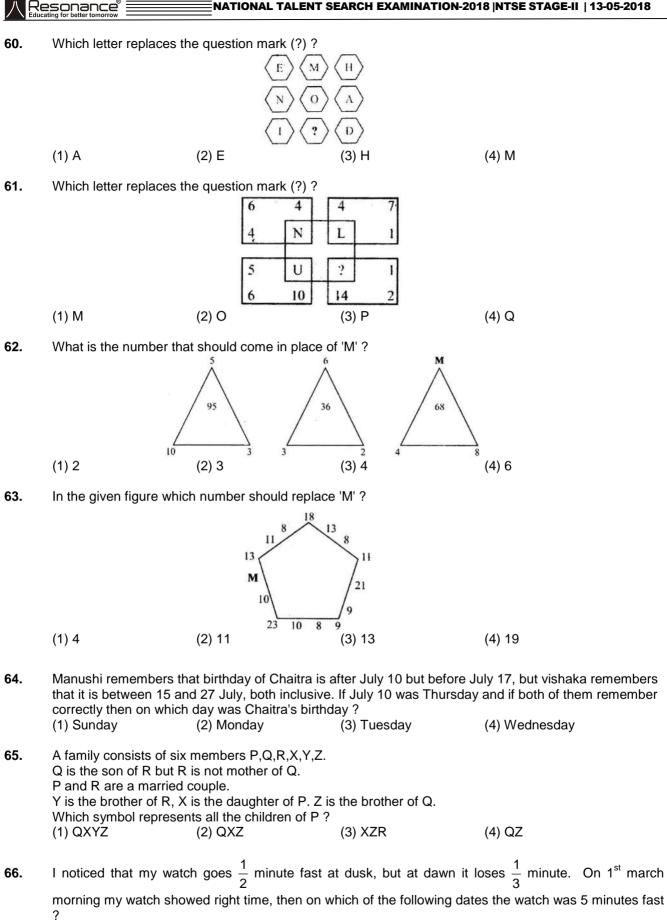


Find the missing number at the place of 'M' ? 59.



(1) Red

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(3) 30th March

(4) 31st March

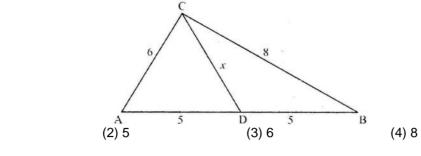
(2) 29th March

(1) 28th March

(1) 4

71.

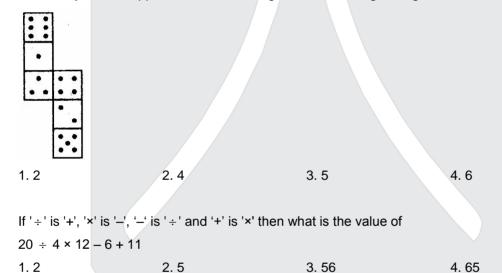
67. What is the length 'x' of the line segment CD in the triangle drawn below ?



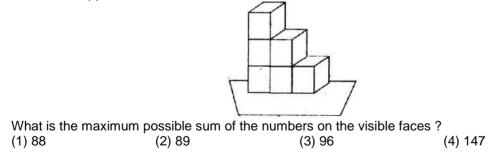
- 69. If water image of OXIDE is OXIDE, then the water image of METAL will be :

1 JATEM² WELAK³ AFTEM² METAL⁴

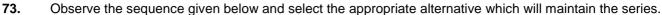
70. How many dots lie opposite the face having dots, when the given figure is folded to form a cube ?

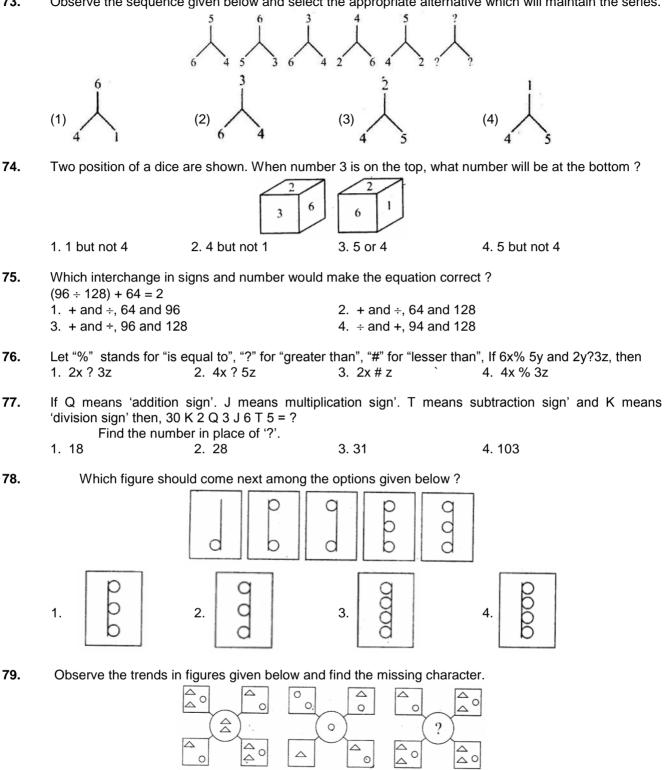


72. Six dice are stacked as shown in the figure. On each dice, the sum of number appearing on a face and on the face opposite to it is 7 ?



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3.

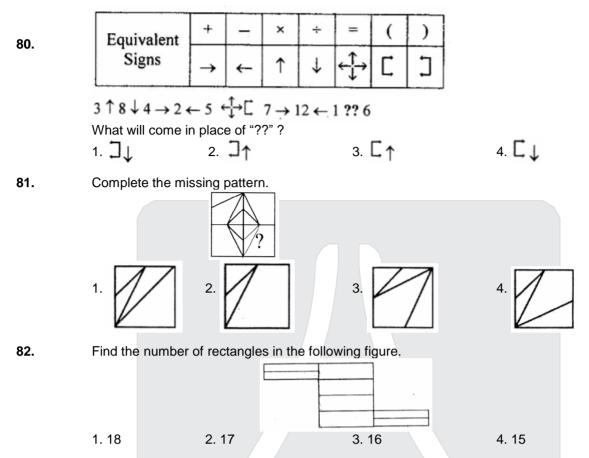
1

2.



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1.

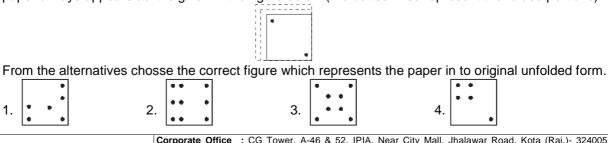


83. In the given matrix, first now and the first column consist of symbols and numbers respectively, the combination of those would be the code for specific alphabets given in other cells. For example, the code for 'G' could be 1\$ or 2@. In the same manner, what from the given alternatives will be the correct code for "PEACE" ?

| | @ | # | * | \$ | |
|---|---|---|---|----|--|
| 0 | А | Р | Q | Р | |
| 1 | Т | Р | S | G | |
| 2 | G | R | Ν | E | |
| 3 | F | М | 0 | Т | |
| 4 | С | Е | А | С | |
| 5 | J | R | Р | V | |
| 6 | А | В | L | J | |
| 7 | Е | Q | С | Z | |
| | | | | | |

1. 0\$ 4# 0@ 7* 2# 2. 1# 3@ 6@ 4 \$ 4 # 3.5*7@4*1\$2@ 4.0\$2\$0@6*2#

84. A square sheet is folded into half, the line of folding being parallel to a side of the square. It is again folded into half, the line of folding being parallel to the shorter side. In this condition the front of the paper always appears as it is given in the figure below (the dotted lines represent the folded portions).



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85. A, B, C, D, E, F, G, H, are each to be assigned a different number from 1 to 8. What should be values of B, D, E, F, and G so that no consecutive number are in adjacent (even diagonally) squares. Given : A = 5, C = 2, H = 4

| | Given : A = 5, C = 2, H | = 4 | | | | | | Ū | | |
|-----|--|--|----------------------------|---------------------------|---------------------------|---------|-------------|---------------------|----------------|----------|
| | | | | А | В | | | | | |
| | | Ī | С | D | Е | F | | | | |
| | | L | | G | н | | | | | |
| | 1. (6, 8, 1, 7, 3) | 2. (| 3, 8, 7 | 7, 1, 6) | | 3. (| (8, 6, 3, 7 | 7, 1) | 4. (3, 8, 1, 7 | 7, 6) |
| 86. | In a farmhouse there a the total number of fee of supervisors is | | | | | | | | | |
| | 1.5 | 2.8 | | | 3. 10 | | | 4. 15 | 5 | |
| 87. | If in a coded language. 'Busy bees' are coded 'Busy crows' are code "Bright Crows' are code Then Busy crows are con 1. Cpu Hup Bsf Dmf | as 'Cpu cff' as 'cpu hup' ed "Csj Hup' :lever will be o | | | 3. ср | u Hup | Baf Dmt | [.] 4. cp | ou hup bsf Dmf | |
| 88. | What is the code used I. 'Flower Blue Red W II. ' Take Red Pink Flo III. 'Take Blue Red Bud IV.' Bring Red Take W 1. Sa | /hite' is codec wer' is coded Is' is coded a | l as S as 'S s 'Pa | a Ra (a Ha I Da Ma | Ga Ma' Ma Pa' a Ga' | | d statem | nents as p 4. Ra | J | lage? |
| 89. | What will be the numbe 1. 398 | er of digits us 2. 489 | ed in I | numbe | ering th 3. 49 | | es of a b | ook havir 4. 53 | | |
| 90. | In certain code 678 me | ans 'Study ve | ery ha | rd'. 34 | 7, mea | ans 'ha | ard work | pays' and | d 246 means 's | tudy and |
| | work'. Which of the following | is the code fo | r 'ver | v'? | | | | | | |
| | 1.4 | 2.6 | - | • | 3. 7 | | | 4. 8 | | |
| 91. | In a certain code 'TOM How can 'REMOTE' be | | | | id 'ARI | E' is w | ritten as | '! & ?'. | | |
| | 1. & ? \$ @ ? | 2. & ? * \$ @ | ≥? | | 3. @ | ? * \$ | @? | 4. * | @\$*?! | |
| 92. | If in a certain code 23 × 26 = 42 and, 11 Then, 32 × 16 = ? | × 15 = 19 | | | | | | | | |
| | 1. 40 | 2. 41 | | | 3. 44 | | | 4. 48 | 3 | |
| 93. | In a family of 6 (A, B, C and female members. not true for the given fa Relations : A and E are sons of F. D is the mother of a bo | Read the follo amily. | | | | | | | | |

- B is the son of A.
- 1. A, E, B are males
- 3. C is the daughter of E

- 2. C is the granddaughter of F
- 4. D is the wife of A



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94.If P + Q means P is husband of Q, $\frac{P}{Q}$ means P is sister of Q, P*Q means P is the son of Q. How is Drelated to A in D*B+ $\frac{C}{A}$?1. Son2. Nephew3. Sister4. Couple

95. Afsana was walking in a desert. Anwar was passing by riding on a camal. Afsana requested for a lift. Anwar said he will give lift only to those who are related to him. At this, Afsana told him that Anwar's mother-in-law is the mother of her mother-in-law. How is Anwar related to Afsana ?

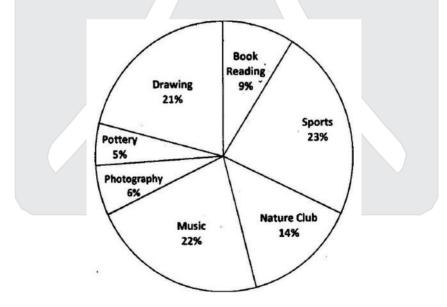
Father
Maternal uncle
Brother-in-law

96. A person travels from Mumbai to Ahmedabad by car in 5 hours. The speed of the car during first hour of journey was 60 km/hr. For the next two hours speed was 80 km/hr. Next hour it was 100 km/hr. Finally, during the last hour of his journey he drove at 40 km/hr. What is the average speed during his journey ?

1. 56 km/hr. 2. 67.4 km/hr. 3. 70 km/hr. 4. 72 km/hr.

Directions for (Questions 97-98)

Study the pie chart and information given below and answer the following questions.



There are 1150 students of a school opted sports as a hobby.

| 97. | How many stud | lents have book reading | as a hobby ? | |
|-----|------------------|----------------------------|--------------|---------|
| | 1. 390 | 2. 420 | 3. 440 | 4. 450 |
| 98. | What is the tota | al number of students in t | he school ? | |
| | 1. 4990 | 2.5000 | 3. 5050 | 4. 5100 |



99. The following table shows the distribution of Boys and Girls students of seven different schools

| School | Boys (Total 27,300) | Girls (Total 24, 700) |
|--------|------------------------|--------------------------|
| А | 17% | 8% |
| В | 12% | 15% |
| С | 12% | 12% |
| D | 13% | 13% |
| E | 19% | 14% |
| F | 14% | 21% |
| G | 15% | 17% |

What is the ratio between the number of Girls and Boys students respectively from school F?1. 14:212. 19:213. 17:214. 19:14

100. Ajush, Hina, Harbhajan and George are student friends studying in Delhi and plan to go on winter holiday some where in India. They can go to Rajasthan, Goa, Kerala, Odisha, Madhya Pradesh or any of the North Eastern States.

Ayush is willing to go any where except North Eastern states, Harbhajan prefers not to go to Goa and Kerala. Hina wants to go either to Goa or Odisha. George does not mind as long as it is not Rajasthan. Which destination whould be acceptable to all?

4. Madhya Pradesh

1. Goa 2. Odisha 3. Kerala



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