

ENGLISH - HINDI

13-15

Code

Roll No.

रोल नम्बर

23015162

Booklet Number

पुस्तिका संख्या

2152042

MENTAL ABILITY TEST

(For Students of Class X)

Time: 45 Minutes

Max. Marks: 50

INSTRUCTIONS TO CANDIDATES

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

1. Answers are to be given on a separate answer sheet.
2. Please follow the instructions given on the answer sheet for marking the answers.
3. Write your eight-digit Roll Number as allotted to you in the admission card very clearly on the test-booklet and darken the appropriate circles on the answer sheet as per instructions given.
4. Write down and darken Booklet Number in the appropriate circles on the answer sheet as per instructions given.
5. There are 50 questions in this test. All are compulsory.
6. Since the time allotted for this question paper is very limited you should make the best use of it by not spending too much time on any one question.
7. Rough work can be done anywhere in the booklet but not on the answer sheet/loose paper.
8. Every correct answer will be awarded one mark.
9. THERE WILL BE A DEDUCTION OF 1/3 MARKS FOR EVERY WRONG ANSWER AND NO MARKS WILL BE DEDUCTED FOR UNATTEMPTED QUESTIONS.
10. Please return only the answer sheet to the invigilator after the test.
11. English version of the question paper will be considered as final in case of any dispute arising out of variation in translated version.

PLEASE TURN OVER THE PAGE AND START YOUR WORK

बौद्धिक योग्यता परीक्षा

(कक्षा X के विद्यार्थियों के लिए)

समय: 45 मिनट

अधिकतम अंक: 50

परीक्षार्थियों के लिए अनुदेश

प्रश्न पुस्तिका खोलने से पहले, निम्न अनुदेशों को ध्यान से पढ़िए।

1. उत्तर एक अलग उत्तर-पत्रक में देने हैं।
2. कृपया उत्तर चिह्नित करने के लिए उत्तर-पत्रक पर दिए गए अनुदेशों का अनुपालन कीजिए।
3. कृपया अपना आठ-अंकीय रोल नंबर, जैसा कि आपके प्रवेश पत्र पर दिया गया है, अनुदेशानुसार प्रश्न-पुस्तिका और उत्तर-पत्रक पर बहुत स्पष्ट रूप से लिखिए और दिए गए उपयुक्त गोलों को काला कीजिए।
4. कृपया उत्तर-पत्रक में उपयुक्त खाने में निर्देशानुसार पुस्तिका संख्या लिखिए तथा उपयुक्त गोलों को काला कीजिए।
5. इस परीक्षा में 50 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं।
6. क्योंकि इस प्रश्न पत्र के लिए निर्धारित समय बहुत सीमित है, इसीलिए इसका सर्वोत्तम उपयोग कीजिए और किसी प्रश्न पर बहुत समय न लगाइए।
7. रफ कार्य पुस्तिका में कहीं भी किया जा सकता है, किन्तु उत्तर-पत्रक/अलग कागज पर नहीं।
8. प्रत्येक सही उत्तर का एक अंक प्रदान किया जाएगा।
9. प्रत्येक गलत उत्तर के लिए 1/3 अंक काटा जाएगा और किसी प्रश्न का उत्तर न देने पर उसके लिए कोई अंक नहीं काटा जाएगा।
10. कृपया परीक्षा के पश्चात केवल उत्तर-पत्रक ही निरीक्षक को वापिस कर दीजिए।
11. अनुवादित विवरण में अंतर से उठे किसी भी विवाद की स्थिति में, प्रश्न पत्र के अंग्रेजी विवरण को निर्णायक माना जाएगा।
कृपया पृष्ठ पलटिए और अपना कार्य आरम्भ कीजिए।

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S/14 NRS/15-Mat-Hindi-1A

NTSE STAGE_II MENTAL ABILITY PAPER-2015

- If RESPOND is coded as EMPOTDS and SENSE is coded as FRODT, then CLARIFY will be coded as :
(1) EDTOJME (2) ZEJSBMD (3) ZEJQBKD (4) ZDKSBKD
- Madhu walks 15 metres towards north, then she turns left at 90° and walk 30 metres, then turns right at 90° and walks 25 metres. How far, she is form the starting point and in which direction ?
(1) 55 mt., north -east (2) 50 mt., north-west (3) 60 mt., north (4) 50 mt., west
- Five friends A,B,C,D and, E are standing in a row facing south but not necessarily in the same order. Only B is between A and E, C is immediate right to E and, D is immediate left to A. On the bais of above information, which of the following statement is definitely true ?
(1) B is to the left of A (2) B is to the right of E
(3) A is second to the left of C (4) D is third to the left of E

Direction (Question 4-8) : A, B, C, E, F, G and H are seven employees in an organisation working in the departments of Administration, Accounts and Operations. There are at least two employees in each department. There are three females, one in each department. Each of seven employees earns different amount. The only bearded employee F works in administration and his only other colleague G earns the maximum. C, the least earner works in Accounts. B and E are brothers and do not work in the same department. A, husband of H. works in Accounts and earns more than each of F, B and E. The wife in the couple earns more than the husband.

- Which of the following is a group of females :
1. GCE 2. GEH 3. GCH 4. GHB
- In which department(s) do three people work ?
1. Operations 2. Accounts 3. Operation or Account 4. Data inadequate
- What will be position of A from the top when they are arranged in descending order of their income ?
1. Second 2. Third 3. Fourth 4. Fifth
- In which of the following department does B work ?
1. Operations 2. Accounts 3. .Administration 4. Data inadequate
- Which of the following statments is definitely true ?
1. B earns less than F and H 2. F earns more than B and E
3. B earns more than E and C 4. B earns less than A and H

Direction (Question 9-11) : Given an input, a machine generates pass codes for the six batches each day as follows :

Input : these icons were taken out from the sea.

Pass Codes

Batch I : from sea the out taken were icons these

Batch II : from icons these were taken out the sea

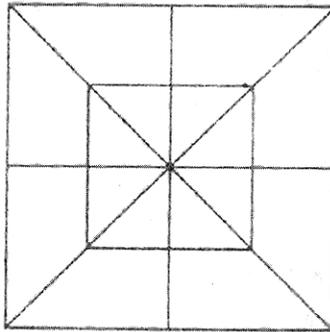
Batch III : from icons out sea the taken were these

Batch IV : from icons out sea these were taken the

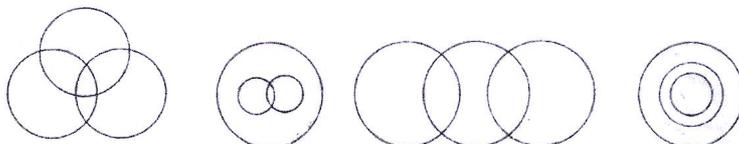
- What will be the pass code for the Batch V on a day, if the input is "four of the following five form a group" ?
1. a five following form four group the of 2. a five following form group the of four
3. a five following form four of the group 4. a five following form four group of the
- If the pass code for the Batch IV on a day was 'back go here people who settle want to', what was the pass code for the Batch V on that day ?
1. back go here people settle who want to 2. back go here people to want settle who
3. back go here people settle to want who 4. cannot be determined

11. The pass code for the Batch I on a day was 'he so used to sell the surplus items'. What was the input on that day ?
1. items surplus the sell to used so he
 2. he items surplus the sell to used so
 3. so used to sell the surplus items he
 4. cannot be determined

12. What is the total number of triangles and total numbers of squares in the give figure ?



1. 28 triangles, 10 squares
 2. 28 triangles, 8 squares
 3. 32 triangles, 10 squares
 4. 32 triangles, 8 squares
13. A cube whose two adjacent faces are coloured is cut into 64 identical small cubes. How many of those small cubes are not coloured at all ?
1. 24
 2. 32
 3. 36
 4. 48
14. If $54/32 = 4$, $36/42 = 3$, $92/22 = 7$ then what is $28/33 = ?$
1. 5
 2. 6
 3. 4
 4. 9
15. In a certain code language, 'po ki top ma' means 'Usha is playing cards', 'Kop Ja ki ma' means 'Asha is playing tennis', 'ki top sop ho' menas 'they are playing football' ; and ' po sur kop' means 'cards and tennis'. Which word in this language means 'Asha' ?
1. Ja
 2. ma
 3. kop
 4. top
16. A ship navigating in the Indian Ocean is hit by a sea storm and drifts as follows :
 40 km North
 28 km north west
 36 km west
 52 km south and 29 km south east.
 The ship had finally drifted in.....direction from its original position.
1. South West
 2. South
 3. West
 4. South East
17. Four diagrams marked A,B,C and D are given below. The one that best illustrates the relationship among three given classes :
 Women, Teachers, Doctors



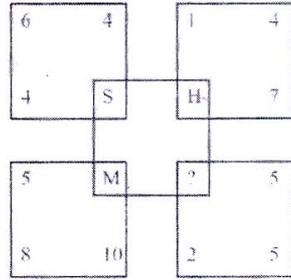
1. A
 2. B
 3. C
 4. D
18. Identify the missing number in the following squence
 2,17,52,_____,206
- 1.73
 - 2.85
 - 3.113
 - 4.184

19. Select the missing number
- | | | | |
|---|--|---|-------|
| $\begin{matrix} 11 & & 9 \\ & \diagdown & / \\ & & \\ & & \\ & 40 & \end{matrix}$ | $\begin{matrix} 15 & & 7 \\ & \diagdown & / \\ & & \\ & & \\ & 176 & \end{matrix}$ | $\begin{matrix} 25 & & 21 \\ & \diagdown & / \\ & & \\ & & \\ & ? & \end{matrix}$ | |
| 1.184 | 2. 210 | 3. 241 | 4.425 |

20. Select the missing numbers in the following sequence
 3,6,24,30,63,72,?,?,195,210
 1.117, 123 2.120,132 3.123,135 4.135,144

21. Find the number that does not belong to the group :
 111,331,482,551,263,383,362,284
 1. 263 2. 331 3. 383 4. 551

22. Which letter replaces the question mark ?



23. Certain blank spaces are left in the following sequence. Which is the group of letters given below, will complete the sequence ?
 c _bba_ cab _ac_ ab_ ac
 1.acbcb 2.bcacb 3.babec 4.abebe

24. A boat starts with the speed of 1km per hour. After every 1km. the speed of boat becomes twice. How much will be the average speed of the boat at the end of journey of 2.5 km ?
 1. $\frac{2.5}{1.5125}$ 2. $\frac{2.5}{1.75}$ 3. $\frac{2.5}{1.625}$ 4. $\frac{2.5}{1.50}$

25. Using the total number of alphabets in your solution as a parameter, find the number that represents G if, A-0,B-0,C-2, D-2,E-1,F-2,G
 1.2 2.3 3.4 4.5

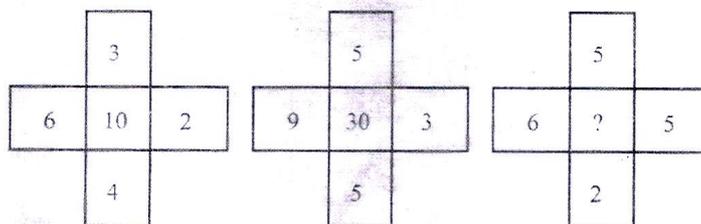
26. Rs.1000 is given to A,B and C in some ratio, A is wrongly given double and C is wrongly given half, which is Rs. 500 and Rs. 250 repectively.how much is given to B ?
 1.500 2.250 3.750 4.None of above

27. Given that the total cost of 5 erasers, 7 sharpeners and 9 pencils is Rs. 100 and the total cost of 2 ersers, 6 sharpeners and 10 pencils is Rs. 80.What is the total cost (in Rs.) of one eraser, one sharpender and one pencil ?
 1.10 2.15 3.20 4.Data are not sufficinet

28. Renu went to the market between 7 am and 8 am .The angle between the hour-hand and the minure-hand was 90°. She returned home between 7 am and 8 am.Then also the angle between the minute-hand and hour-hand was 90°. At what time (nearest to second) did Renu leave and return home ?
 1.7h 18 m 35 s and 7h 51 m 24 s 2. 7 h 19 m 24 s and 7 h 52 m 14s
 3. 7h 20 m 42 s and 7 h 53 m 11 s 4.7 h 21 m 49 s and 7 h 54 m 33 s

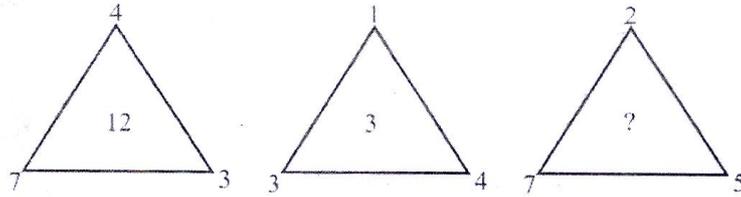
29. Stimulant : Activity :: ?
 1.Symptom : Disease 2.Food : Hunger 3. Fertilizer : Growth 4.Diagnosis : Treatment

30. Choose the missing number form among the four alternatives :



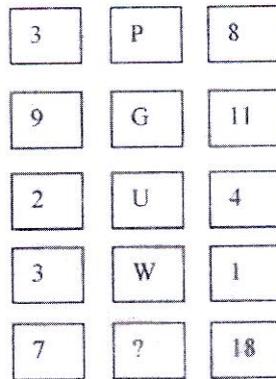
1.15 2.20 3.25 4.40

31. From among the four alternatives given below, which number replaces the question mark ?



- 1.9 2.10 3.18 4.23

32. From among the four alternatives given below, which letter replaces in the given figure the question mark ?



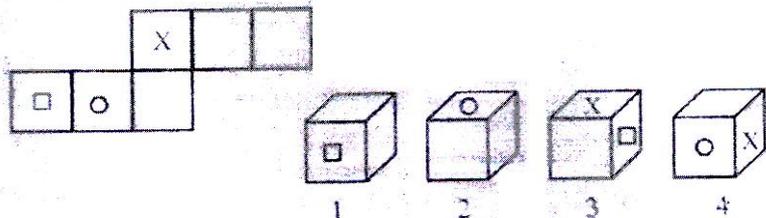
1. A 2. B 3. S 4. Y

33. Choose the correct mirror-image most closely resembles the word-source, from the four given alternatives.

source

1. 2 0 U T O 9 2. 9 0 T U O 2 3. 9 T O U O 2 4. e c r u o s

34. In the problem figure a unfolded cuboid is given. Choose from the four given alternatives the box that will be formed when problem figure is folded.

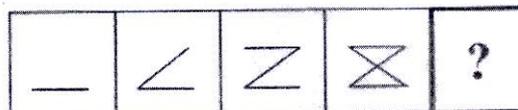


1. 1 only 2. 1 and 2 only 3. 1,2 and 3 only 4. 2 and 3 only

35. A work can be completed by 40 workers in 40 days. If 5 workers leave every 10 days, in how many days work will be completed ?

1. 55, 66 2. 56, 44 3. 56, 66 4. 58, 66

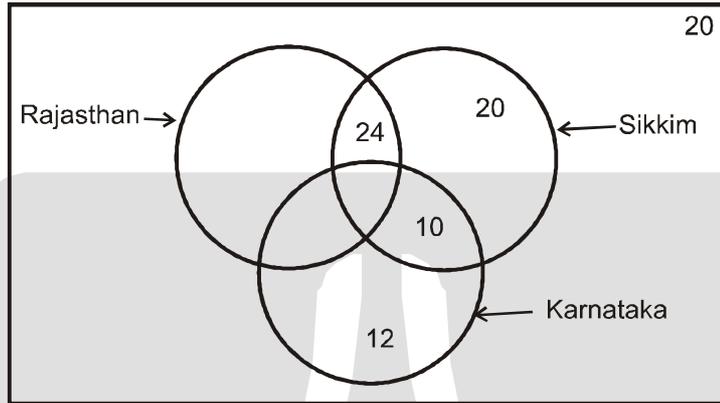
36. From among the four alternatives given below, which figure replaces the question mark ?



1. 2. 3. 4.

45. MINT
 1. % = & * 2. = # ? % 3. @%=\$ 4. * @ ? +
46. RINSE
 (1) = ? + * @ (2) % * \$ # & (3) * \$ # @ + (4) \$ & # = ?
47. INTEREST
 (1) = ? * + % & = * (2) ? # = ? + # * \$ (3) + \$ @ + \$ = * % (4) @ # * # @ \$ % &

Direction (Question 48–49) There are three circles in the following diagram. A total number of 100 persons were surveyed and the number in the diagram indicates the number of tourists who visited different states. 46 tourists visited Sikkim and 42 tourists visited Karnataka.



48. How many tourists have visited at least two states ?
 (1) 46 (2) 50 (3) 54 (4) 58
49. How many tourists have visited only two states ?
 (1) 46 (2) 50 (3) 54 (4) 96
50. If BREAKTHROUGH is as EAOUHRBRGHKT, DISTRIBUTION will be coded :
 (1) STTIBUDIONRI (2) TISTBUONDIRI (3) STTIBUONRIDI (4) RISTTIBUDION

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