NTSE STAGE-I (2015) CLASS-10th

MENTAL ABILITY TEST (MAT)

Time: 45 Minutes

Maximum Marks: 50

Please read the instructions carefully.

INSTRUCTIONS

A: General :

- 1. Immediately fill in the particulars on this page of the Test Booklet with Blue/Black Ball point pen.
- 2. Use *Blue/Black Ball Point Pen only* for writing particulars on *Side-1* and *Side-2* of the Answer Sheet. *Use of pencil is strictly prohibited.*
- **3.** Darken the appropriate bubbles with **HB Pencil** only.
- **4.** Blank papers, clipboards, log tables, slide rules, calculators, cellular phones, pagers and electronic gadgets in any form are not allowed.
- 5. The answer sheet, a machine-gradable Objective Response Sheet (ORS) is provided separately.
- 6. Do not Tamper/mutilate the **ORS** or this booklet.
- **7.** No additional sheets will be provided for rough work
- 8. On completion of this test, the candidate must hand over the Answer Sheet to the Invigilator on duty in the Room/Hall. However, the candidates are allowed to take away this Test Booklet with them.

B: Questions paper format and Marking Scheme :

- 1. The question paper consists of 50 questions.
- **2.** For each question you will be **awarded 1 marks** if you darken the bubble corresponding to the correct answer and zero mark if no bubbles is darkened. No Negative Mark will be awarded.

Enrollment No. :	Batch :
Candidate's Signature	Invigilator's Signature:

NTSE STAGE-I-CLASSX-MAT-09112015- CHANDIGARH.DOC-2 Directions for Questions 1 to 5:

Find the odd one out

1.	13, 61, 97, 117 (A) 13 (C) 97	(B) (D)	61 117
2.	2–3, 3–7, 4–15, 5–24 (A) 2–3 (C) 4–15	(B) (D)	3–7 5–24
3.	3175, 7531, 1357, 7315 (A) 3175 (C) 1357	(B) (D)	7531 7315
4.	MQT, ADG, HKN, RUX (A) MQT (C) HKN	(B) (D)	ADG RUX
5.	BDF, CHK, LDO, RFX (A) BDF (C) LDO	(B) (D)	CHK RFX
6.	If in a certain code '64391' is written as '73482' then how (A) 320860 (C) 127840	/ will (B) (D)	'218759' be coded? 309688 309668
7.	If in a certain code '24631' is written as 'GREAT' and '58 (A) OGKAE (C) ORATG	97' a (B) (D)	as 'MONK' then how will '84712' be coded? ORKTG OGRTK
8.	If 3 rd of the month falls on Wednesday then what day wil (A) Saturday (C) Friday	l be ((B) (D)	on 27 th of that month? Sunday Monday
9.	If Thursday falls on 1 st January 2015, what day of the we (A) Monday (C) Friday	ek v (B) (D)	<i>r</i> ill be on 1 st January 2016? Tuesday Sunday
10.	If the following series is written in reverse order, then wh 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) X (C) V	ich v (B) (D)	vill be 12 th letter to the left of 10 th letter from your right? U W
11.	If the first and 11 th letters of the word 'DISTURBANCE' which would be the 7 th letter from your right	were	e interchanged, also the second and 10 th letters and so on,
	(A) R(C) A	(B) (D)	B U
12.	BYVE : GTQJ :: CXUF:? (A) HSQJ (C) HSPK	(B) (D)	IROL GTRI
13.	ARM : ESN : : OWL : ? (A) SXN (C) UXM	(B) (D)	KXT UXN
Direct	tions for Questions 14 and 15:		
Find o	ut the missing letters		
14.	ab _ abcbcdb _ d _ decdedefde (A) cccf (C) bcde	(B) (D)	bcdf bded
15.	babc _ abbccc _ cdbbc _ dddc _ eccddee (A) adcd (C) bcdc	(B) (D)	abcd babd

- 16. A person goes 30 km towards North from a fixed point and then after turning to his right he goes 15 km. After this he goes 30 km after turning to his right. How far and in what direction is he from his starting point? (B) 15 km, East
 - (A) 40 km, East (C) 45 km, West
 - (D) 45 km, North

17. A person is at a fixed point, from where he goes 20 metres towards West. From there he goes 10 metres towards North. Then he goes 35 metres towards East and after this he goes 5 metres towards South and in the end he goes 15 metres West. How far is he from the fixed point?

- (A) 5 metres
- (C) 13 metres

(B) 0 metres (D) 15 metres

(D) Expose

- If the following words are arranged according to the dictionary order then which will be the second word in that order? 18. (B) Exposure
 - (A) Export

(

(C) Expulsion

Directions for Questions 19 and 20:

Six people P, Q, R, S, T and U are sitting in a circular path are facing the centre. R is third from P in the right. Q is third from T in the left. U is between P and T and S is third from U from the left and from right.

19.	Who is opposite to T? (A) S (C) P	(B) (D)	Q U
20.	What is the order of the six people from the right? (A) SQRUTP (C) SRTUPQ	(B) (D)	TSRQUP SQPTUR

21. Shyam is older than Ram. Ram is younger than Mohan who is not olde that Shyam. Shyam is younger than Krishna. Who is the eldest among all?

(A)	Mohan	(B)	Krishna
(C)	Shyam	(D)	Ram

If in a class of 37 students the places of Anuradha and Saroj are 10th and 16th respectively, what are their placed from 22. the last?

(A) 28^{th} and 22^{th}	(B)	27 th and 21 st
(C) 28^{th} and 20^{th}	(D)	27 th and 22 nd

How many 2's are there in the following number series which are preceded by 5 but not followed by an odd number? 23. 13523545245226245267823527524

(A)) One	(B)	Two
(C)) Three	(D)	Four

24. How many 3's are there in the following number series which are preceded by an odd number but followed by 4? 1532346534783492344563443534

(A)	None	(B)	Two
(C)	Four	(D)	One

25. If the numbers from 4 to 55 which are divisible by 3 and also the numbers which contain 3 as one of the digits, are removed, then how many numbers will be left?

(A)	24	(B)	23
(C)	22	(D)	25

A doctor said to his nurse, "I go to see the patients at their residence after every 3.30 hours. I have already gone to the 26. patient 1.20 hours ago and next time I shall go at 1:40 p.m." At what time this information was given to the nurse by the doctor?

A)	10:10	(B)	11:30
C)	8:50	(D)	11:20

Directions for Question 27 to 30:

If according to a certain code 'mar tar gar zar' means 'Can we start immediately ' har zar par dar' means 'No you start tomorrow' 'dar sar kar tar' means 'Can you come here'. 'yar par mar sar' means 'No we stay here'.

27.	What is the code for 'stay'? (A) yar (C) mar	(B) (D)	par sar
28.	What does 'dar' mean? (A) No (C) You	(B) (D)	Can Start
29.	What does 'mar' mean? (A) Can (C) start	(B) (D)	We Here
30.	What is the code for 'immediately'? (A) yar (C) sar	(B) (D)	har gar

Directions for Questions 31 and 32:

In the figure given below, triangle represents girls, square represents sport person and circle represents coaches.



31. Which portion of the figure represent girls who are sports-persons but not coaches?

(A)	А	(B) B	
(C)	С	(D) D	

32. Which portion represents girls who are sports-person and coaches?

(A) D	(B) C
(C) B	(D) A

Directions for Questions 33 and 34:

A figure is given. A mirror is placed at one side of it. The mirror is denoted by AB. Which one of answer figure will be its image.



(B) B (D) D



Directions for Questions 35 to 37:

Study the three different positions of a dice given below and answer the questions.



- Which number occurs on the face opposite to 2?
 (A) 1
 (C) 5
- 36. The number on the bottom face of figure (1) is
 (A) 1
 (C) 5
- 37. The number on the face opposite to 6 is:
 (A) 1
 (C) 4
- Directions for Questions 38 and 39:
- 38. 2 1 6 ? 7 3 4 8 2 48 24 56 (A) (C) 4 (B) 3 2 (D) 5 39. 60 235 (B) 141 (A) (C) 144 (D) 188
- 40. The first term in a sequence is 1 and the second term is 5. From the third term on each term is the average (arithmetic mean) of all preceding terms. What is the 25th term in the sequence?
 (A) 2.5
 (B) 3
 (C) 5
 (D) 2.5

- (D) None of these
- (B) 5

(B) 4

(B) 4

(D) Can not be determined

(D) Can not be determined

Directions for Questions 41 and 43:

In each question there are two sets of figures. One is 'Problem Figure' while the other is 'Answer Figure'. The four problem figures make a series. Find out which one of the answer figures would occupy the forth position in the problem figures if they continue to change in the same order.





Directions for Questions 45 and 47:

The questions represents certain relationship. The same relationship has been represented by the figures A, B, C, D and E but not in the same order. You have to choose the right choice.



Directions for Questions 48 and 50:

Which answer figure will complete the incomplete figure?



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ANSWERS

1.	D	2.	В	3.	D	4.	А
5.	С	6.	D	7.	В	8.	А
9.	С	10.	GRACE	11.	В	12.	С
13.	С	14.	А	15.	В	16.	В
17.	А	18.	D	19.	В	20.	С
21.	В	22.	А	23.	D	24.	В
25.	D	26.	В	27.	А	28.	С
29.	В	30.	D	31.	В	32.	В
33.	А	34.	D	35.	С	36.	А
37.	С	38.	А	39.	D	40.	В
41.	С	42.	GRACE	43.	С	44.	С
45.	В	46.	В	47.	А	48.	С
49.	В	50.	С				