Time: 09.00 a.m. to 11.00 a.m.

CENTR CODE:															
DATE:	0	3	1	1	2	0	1	9							
EXAM	SEAT	NO.:	3	6	2	0	0	0							
CXAM	SEAT	NO. (in wo	ords)	three	six	two	zero	zero	zero		Т		T	7

NATIONAL TALENT SEARCH EXAMINATION 2019-20 (STD. X) Mental Ability Test (MAT)

Instructions to the Candidates:

1) PART I Mental Ability Test

Time 120 Minutes

Maximum Marks 100

- 2) Write your Seat No. both in figures and in words on this Question Booklet (above) as Well as on the Answer Sheet (OMR Sheet) supplied to you.
- 3) Each question carries one Mark.
- 4) All questions are compulsory.
- 5) You have to mark your answers on Answer sheet provided with the Question Booklet. Each question is provided with four alternatives. Answer to each question is to be indicated by **making a dark circle on** the number of the correct alternative in the Answer sheet from amongst those given against the corresponding question in the Question Booklet.
- 6) Rough work can be done any where in the question booklet.
- 7) Extra time of 30 minutes will be allotted to the Physically Handicapped candidate with Defects of vision only.

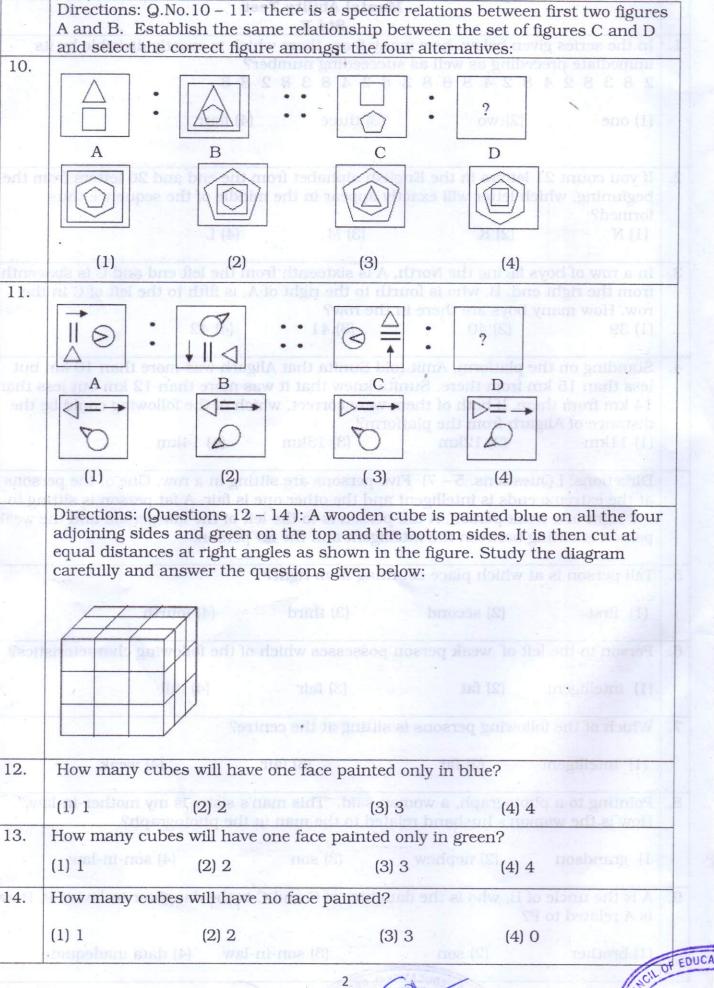
Please Note the Centre Codes:

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1.	Bicholim	0001
2.	Bardez	0002
3.	Pernem	0003
4.	Sattari	0004
5.	Tiswadi	0005
6.	Ponda	0006
7.	Salcete	0007
8.	Sanguem	0008
9.	Canacona	0009
10.	Quepem	0010
11.	Dharbandora	0011
12.	Mormugao	0012



3/3

	Mental Ability Test Std X
1.	In the series given below, how many 8 are there which is exactly divisible by its immediate preceding as well as succeeding number? 2 8 3 8 2 4 8 2 4 8 6 8 2 8 2 4 8 3 8 2 8 6
	(1) one (2)two (3) three (4) four
2.	If you count 21 letters in the English alphabet from the end and 20 letters from the beginning, which letter will exactly appear in the middle of the sequence thus formed? (1) N (2) K (3) M (4) L
3.	In a row of boys facing the North, A is sixteenth from the left end and C is sixteenth from the right end. B, who is fourth to the right of A, is fifth to the left of C in the row. How many boys are there in the row? (1) 39 (2) 40 (3) 41 (4) 42
4.	Standing on the platform, Amit told Sunita that Aligarh was more than 10 km but less than 15 km from there. Sunita knew that it was more than 12 km but less than 14 km from there. If both of them were correct, which of the following could be the distance of Aligarh from the platform? (1) 11km (2) 12km (3) 13km (4) 14km
	Directions: (Questions. $5-7$) Five persons are sitting in a row. One of the persons at the extreme ends is intelligent and the other one is fair. A fat person is sitting to the right of a weak person. A tall person is to the left of the fair person and the weak person is sitting between the intelligent and the fat person.
5.	Tall person is at which place counting from right?
	(1) first (2) second (3) third (4) fourth
6.	Person to the left of weak person possesses which of the following characteristics?
	(1) intelligent (2) fat (3) fair (4) tall
7.	Which of the following persons is sitting at the centre?
	(1) intelligent (2) fat (3) fair (4) weak
8.	Pointing to a photograph, a woman said. "This man's sister is my mother-in-law." How is the woman's husband related to the man in the photograph?
	1) grandson (2) nephew (3) son (4) son-in-law
9.	A is the uncle of B, who is the daughter of C and C is the daughter-in-law of P. How is A related to P?
233	(1) brother (2) son (3) son-in-law (4) data inadequate
	Tagil of Education (NESIA)



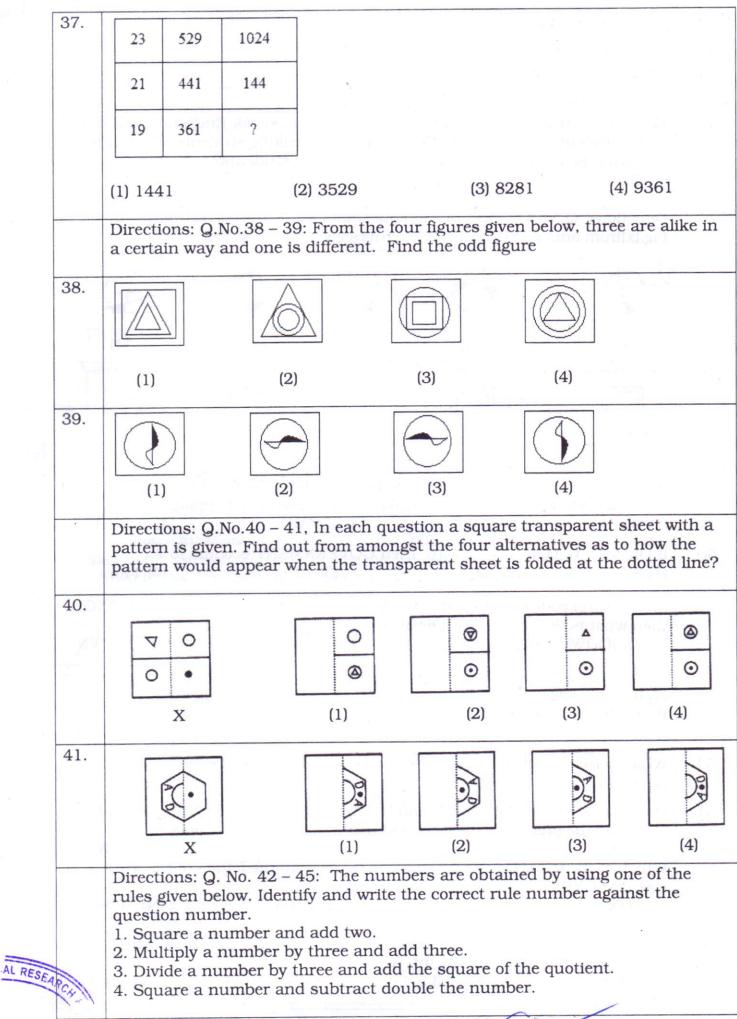
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	Directions: Q.No.15 – 17: Study the following coded relationship carefully and answer the questions that are given below them. C + D means C is the father of D; C – D means C is the wife of D; C D means C is the brother of D; C ÷ D means C is the daughter of D.
15.	If J – L + K, which of the following statement is true? (1) J is the mother of K (2) K is the daughter of J (3) J is the aunt of K (4) J is the sister of K
16.	If J L + M + K, which of the following statement is true? (1) J is the mother of K (2) K is the daughter of J (3) J is the aunt of K (4) J is the sister of K
17.	If J L K, which of the following statement is true? (1) J is the uncle of K (2) J is the father of K (3) J is the brother of K (4) J is the son of K
	Directions: (Questions. 18 – 22) Given below are two matrices containing two classes of letters. The rows and columns of matrix I are numbered from 0 to 4 and that of matrix II from 5 to 9. A letter from these matrices can be represented first by its row number and next by its column number. O 1 2 3 4 5 6 7 8 9 O T N D R I 5 M W O F E 1 R I T N D G F E M W O 2 N D R I T T T W O F E M 3 I T N D R B E M W O F 4 D R I T N D F E M W Matrix I Matrix II
18.	Which set of numbers will represent the word TIME? (1) 23, 66, 01, 02 (2) 42, 11,55, 66 (3) 44, 32, 61, 72 (4) 51, 63, 70, 90
19.	Which set of numbers will represent the word ERODE? (1) 66, 10, 76, 02, 66 (2) 22, 55, 41, 62, 21 (3) 23, 01, 65, 10, 03 (4) 65, 11, 01, 76, 44
20.	Which set of numbers will represent the word NEW? (1) 20, 66, 56 (2) 22, 68, 57 (3) 75, 32, 88 (4) 23, 55, 97
21.	Which set of numbers will represent the word METER? (1) 62, 33, 44, 03, 57 (2) 55, 97, 12, 59, 03 (3) 76, 65, 87, 98, 00 (4) 65, 11, 01, 76, 44
22.	Which set of numbers will represent the word DIRT? (1) 86, 85, 21, 12 (2) 55, 97, 12, 03 (3) 20, 66, 56, 39 (4) 21, 23, 34, 31
	Direction: Q.No.23 – 32: In each of the following questions, four groups of words or letters or numbers are given. Three of them are alike in a certain way while one is different. Find the odd one out from the group.
23.	(1) TSR (2) LKJ (3) PQO (4) HGF
24.	(1) FG (2) DF (3) PR (4)MQ
25.	(1) DfH (2) MoQ (3)UwY (4) pnO
56	

St.

0.0	(1) -00	(0) 100	(0) 101	(4) 100	
26.	(1) 129	(2) 130	(3) 131	(4) 132	7
27.	(1) 60	(2) 1	(3) 28	(4) 9	
28.	(1) 1996	(2) 2006	(3) 1988	(4) 1980	il.
29.	(1) 33116	(2) 34343	(3)35512	(4) 36729	
30.	(1) metre	(2) furlong	(3) acre	(4) mile	
31.	(1) club	(2) hostel	(3) hotel	(4) motel	
32.	(1) Nose	(2) Eyes	(3)Skin	(4) Teeth	
	arranged a		tain rule. Find	e following figures, the nathering the missing number in	
33.	3 C 24 I	8 E		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	on tiles tertific
	7 I 21 I	КЗМ			
	4 D ?	7 J			
	(1) 11 E	(2) 28 G	(3)35 I	(4) 48 F
34.		7		in the second se	1
	7 4	9	2		
	3 14	18	6		
	3 14	18			
	12 16	?	5		
		1			
	2 4	9	4		
	(1) 45		(2) 30	(3) 52	(4) 18
35	1		1		
	10 13 13 (1) 21	5 9	5 16 17 2) 13	9 6 9 7 6 9 7 6 7 6 (4)	15 6
36.	49 26 25	64	9 81 21 25	64 ?	144
	(1)	19	(2) 23	(3) 25	(4) 31
		,			100

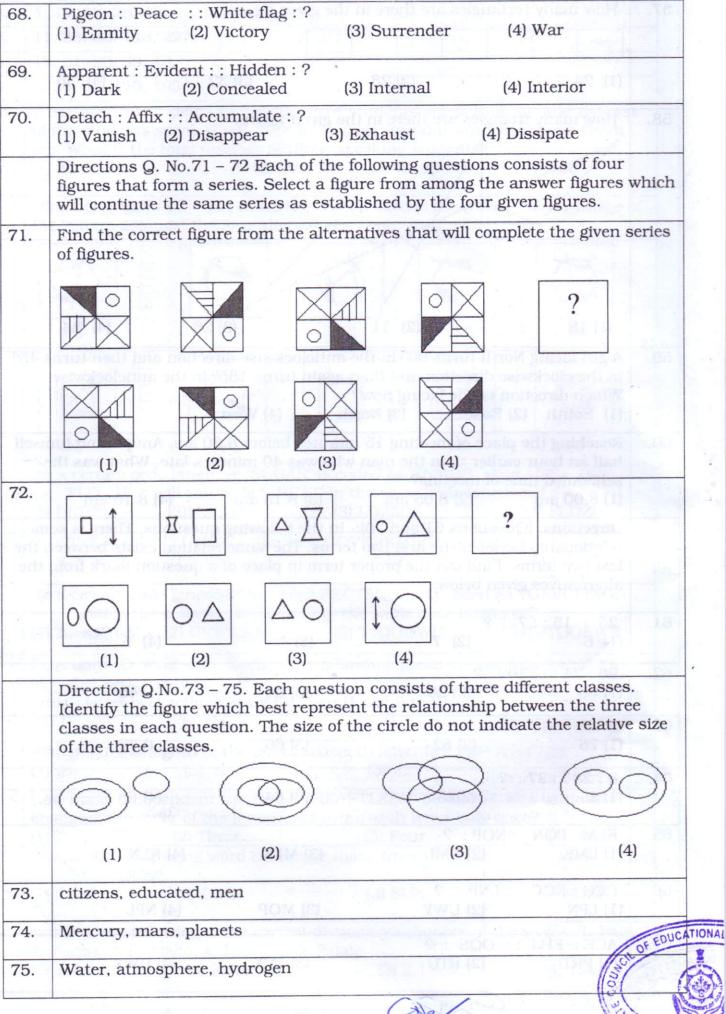
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42.	4, 10, 18, 28, 40.	80, 11, 100			32,0,4
43.	11, 38, 83, 146, 22	27.		1024	SC CA
44.	12, 21, 30, 39, 48.	py6 13	1696	111	
45.	3, 24, 63, 120, 195	5		T CONTROL TO	
46.	There are 150 students of the students spectoo. What is the to (1) 45	eak Hindi. 25%	% of English sp Hindi-speakin	eaking studen	
ni ax	Directions: Q.No.4 Fig.(x)from amongs				
47.					
				4	A 88
	(X)	(1)	(2)	(3)	(4)
48.					
	(X)	(1)	(2)	(3)	(4)
49.	In a certain code l as 'FLD. How wil (1) BNDFL	l you code 'GF	REAT' in the sa	me code langu	
50.	If DRINK = 6, POLI (1) 8	LUTION = 10, (2) 10	then GOVERN (3) 12		to?
51.	In a certain code lethen what is the company (1) TJOQDWV (2)	0		ne code langua	
ė	Directions: Q.No52		the following	questions are l	based on the
52.	alphabet series A to Which letter is exact (1) L		etween H and S (3) O		alphabet?) No such letter
53.	Which letter is eight (1) B	th to the left (2) S	of sixteenth let		ght end (4) H
54.	How many independent changing the order (1) Two			h letter only or	
55.	Which of the follow UNCONSCIOUS?			om the letters	
56.	which of the follow 2. Pagan, 3. Palisac (1) 1,4,2,3,5		, 5. Palate	sequence of th	e words: 1. Page, (4) 1,4,2,5,3
	S. S		6		

57.	How many rectangles are there in the given figure?										
	(1) 24	(2) 2	28	(3) 32		(4) 36					
58.	How many trian	gles are there	in the given	figure?	z zák r den	1 x5 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
			and a								
			a Slidkovy e e								
	- 217 710	\nearrow									
				1	•						
	(1) 18	(2)	1	(3) 26	6 (4) 24					
59.	A girl facing Nort										
	in the clockwise which direction i			rns 135° ii	i the anticlo	ckwise.					
	(1) South (2) E			(4) West							
50.	Reaching the pla	ce of meeting	15 minutes b	efore 8.30	am, Anuj for	and himself					
	half an hour earlier than the man who was 40 minutes late. What was the										
	scheduled time o	t meeting? (2) 8.05 am	(3) 8	15 am	(4) 8.10 a	m					
	Directions: (Questrelationship between last two terms. Finalternatives given	reen the first t ind out the pr	wo terms. Th	e same rela	ation exists l	between the					
3.1	25 : 15 : : 7 :	9		<u> </u>							
51.	(1) 6		(3) 4		(4) 5						
62.	96:24::120:										
	(1) 36	(2) 30	(3) 2	24	(4) 40						
63.	NUMBER SOURCES		नी द			1.0					
	(1) 76	(2) 62	(3) (66	(4) 72						
64.	8:28::27:?					N. N.					
	(1) 0	(2)20	(2) (2.4	(4) 65						
	(1) 8	(2)28	(3)	04	(4) 00						
35.	(1) 8 KLM : PON : : NO		(3) ((4) 03						
65.		OP: ?	(3) M		(4) KLN						
65. 66.	KLM: PON:: NO	OP: ? (2) NML			<u> </u>						
	KLM : PON : : NO	OP: ? (2) NML NP: ?		LK	<u> </u>						
66. 67.	KLM: PON:: NO (1) LMK CEG: EGC:: L (1) LPN ACE: FHJ:: 0	OP: ? (2) NML NP: ? (2) UWY OQS: ?	(3) M	CK OP	(4) KLN (4) NPL						
66.	KLM: PON:: NO (1) LMK CEG: EGC:: L (1) LPN ACE: FHJ:: 0	OP: ? (2) NML NP: ? (2) UWY OQS: ?	(3) M	CK OP	(4) KLN						

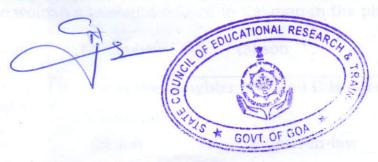


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Directions: Q.No.76 - 78: In the following figure, the circle represents the persons living in joint families, the triangle represents school teachers and the square represents married persons. Study the figure carefully and answer the following questions. F D C E Which of the following represents married persons living in joint families but 76. not working as teachers? (1) C (3) D (4) A (2) F 77. School teachers who are married but do not live in joint families are represented by (1) C (2) F (3) A (4) D Persons who live in joint families, are unmarried and who do not work as 78. teachers are represented by (1) C (2) B (3) E (4) D If your birthday 30th June, 2003 was on Monday, on what day of the week 79. does your birth day was in the year 2005? (1) Sunday (2) Tuesday (3) Wednesday (4) Thursday A clock is set to show the correct time at 11 a.m. The clock gains 12 minutes 80. in 12 hours. What will be the time when the watch indicates 1 p.m. on the 6th day? (3) 12 noon (4) none of these (1) 10 a.m (2) 11 a.m 81. A watch reads 4.30. If the minute hand points East, to what direction will the hour hand point? (3) North-West (4) South-East (1) North (2) North-East Directions: Q. No. 82 – 83: In the questions given below, a question figure marked as X is given on the left hand side and four answer figures are given on the right hand side. Select the answer figure which can be formed from the cut-out pieces given in the figure X and write in the answer sheet. 82. X (2)(3)(4)(1)

83.	the stressinger afects on the supersistent	17 N. 184 . 34 15	d encendi
9-17			
	X (1) (2)	(3)	(4)
84.	P is 300km Eastward of B and D is 400km middle of P and D. What is the distance (1) 500km (2) 250km		
85.	A boy was asked to multiply a certain nur and got his answer more than the correct be multiplied?		
	(1) 12 (2) 15	(3) 25	(4) 52
	Directions: Q.No. 86 – 90: In each of the are arranged according to some rule. Idental alternative that will complete the series at	tify the rule and se	
86.	4, 9, 13, 22, 35, ? (1) 57 (2) 70	(3) 63	(4) 75
87.	1, 1, 3, 9, 6, 36, 10, 100, ?, 225 (1) 25 (2) 15	(3) 20	(4) 16
88.	6, 7, 15, 46, 185, ? (1)226 (2) 230	(3) 271	(4)926
89.	4, 9, 24, 69, ? (1) 165 (2) 193	(3)204	(4) 218
90.	2, 12, 36, 80, 150, ? (1) 194 (2) 210	(3)252	(4) 258
	Directions: Q. No. 91 – 94: In each of the are arranged according to some rule. Iden alternative that will complete the series:		
91.	AZ, GT, MN, ?, YB (1) KF (2) RX	(3) SH	
92.	2A 11, 4 D 13, 12 G 17, ? (1) 36 I 19 (2) 36 J 21	(3) 48 J 21	(4) 48 J 23
93.	A – B B C – A A B – C C A – B B C C (1) ACBA (2) ABBA	(3) CABA	(4) BACB
94.	a-bccb-ca-cca-baab-c (1) abcaa (2) ababc OF EDUCATIONAL RESEARCY 10	(3) a c c a b	(4) b a c a a
	10	SP	

Direction: Q.No.95 - 96: A part of the figure marked X is missing. The missing part is given among the four alternatives. Select and write the correct answer. 95. (1) (2)(3)96. X (1)(2)(3)(4)97. + means -, x means ÷ ÷ means x , and Then the value of $7-8 \times 4 \div 6 + 4$ is $(3) \cdot 15$ (2) 12 (1) 3Directions: Q.No.98 - 100: Study the information given below and answer the questions that follows: Six lectures A, B, C, D, E and F are to be organized in a span of seven days, Sunday to Saturday, only one lecture on each day accordance with the following: i) A should not be organized on Thursday. ii) C should be organized immediately after F. iii) There should be a gap of two days. iv) One day there will be no lecture (Friday is not that day), just before that day D will be organized v) B should be organized on Tuesday and should not be followed by D. On which day there is no lecture? 98. (1) Monday (2) Friday (3) Sunday (4) None of these How many lectures are organized between C and D? 99. (3) Four (1) Two (2) Three (4) None On which day the lecture F will be organized? 100. (1) Thursday (2) Friday (3) Sunday (4) Saturday



NATIONAL TALENT SEARCH EXAM (NTSE) 2019-20 MENTAL ABILITY TEST (MAT)

ANSWER KEY

D.O.E. 03/11/2019

_				_	_	_	_	_	
Q	Α	Q	Α	Q	Α	Q	Α	Q	Α
1	2	21	2	41	2	61	1	81	2
2	3	22	4	42	3	62	2	82	3
3	2	23	3	43	1	63	3	83	2
4	3	24	1	44	2	64	4	84	2
5	2	25	4	45	4	65	3	85	1
6	1	26	3	46	2	66	4	86	1
7	2	27	1	47	4	67	3	87	2
8	1	28	2	48	2	68	3	88	4
9	2	29	1	49	2	69	2	89	3
10	2	30	3	50	4	70	4	90	3
11	1	31	1	51	3	71	2	91	3
12	4	32	4	52	4	72	1	92	4
13	2	33	2	53	3	73	2	93	1
14	1	34	2	54	2	74	4	94	2
15	1	35	3	55	2	75	3	95	4
16	3	36	4	56	3	76	3	96	3
17	4	37	3	57	2	77	1	97	3
18	2	38	4	58	4	78	3	98	1
19	1	39	2	59	1	79	4	99	2
20	1	40	2	60	2	80	2	100	1

