MAT-1

NATIONAL TALENT SEARCH EXAMINATION (Stage-I), 2020-21

Paper – I

MENTAL ABILITY TEST

NTSE-2020/21-M-I/501

MAT-1													
Roll No.	-]	
NATIONAL TALENT SEARCH EXAMINATION (Stage-I), 2020-21 PAPER – I MENTAL ABILITY TEST													
Time : 120 Minutes For visually challenged cand	lidate T	Time : 1	150 M	linute.	5]	Full Marks	: 100
INSTRUCTIONS TO CANDIDATES Read the following instructions carefully before you answer the questions. Answers are to be given on a separate O.M.R. Answer-Sheet. 1. Please write your Roll No. very carefully (only one digit in one Box) as given on your admission card. Please see that no Box is left unfilled and even zeroes appearing in the Roll No. are correctly transferred to the appropriate Box on the booklet and on the answer sheet. For example, a student appearing from Ranchi and Roll Number 21198899999 will make entries in the boxes as under : Roll No. 2 1 1 9 8 9 9 9 9 For all subsequent purposes your Roll No. shall remain the same as given on the admission card.													
 This Question Booklet consists of 100 multiple choice questions. 													
3. Each question carries	Each question carries one mark.												
4. A blank page has been	A blank page has been provided for rough-work at the end of the booklet.												
5. Remember you have given below.	Remember you have to mark your answers on a separate O.M.R. Answer-Sheet as per instruction given below.												
the number of the mo	Answer to each question is to be indicated by darkening the circle by blue or black ball pen only, the number of the most suitable alternative in the answer-sheet from amongst the ones given for the corresponding question in the test booklet. The use of pencil is not allowed.												
7. O.M.R. Answer Shee on the O.M.R. Answe			ner be	folde	ed no	r dist	orted	. Plea	se do	not	make	any stray n	narks
8. In case of any disp	oute ar	rising	out o	of the	vari	atior	n in 1	trans	latior	ı, En	glish	version of	f the

N.B. : Do not write anything except the Roll Number in the Booklet.

question paper will be considered as final.

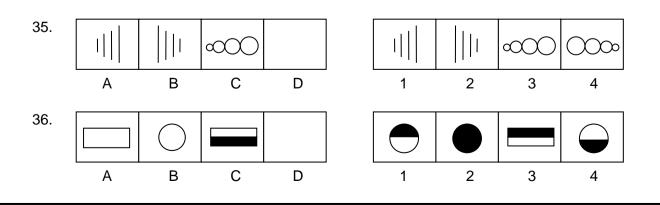
NTSE-2020/21-M-I/501

1.	Choose the odd one: (1) Patna (3) Bhopal	(2) Shimla (4) Ujjain
2.	Which alternative replaces the question mark? 45,34,25,18,? (1) 11 (3) 13	(2)12 (4)14
3.	2 <u>13</u> 4 3 2 4 1 3 (1) 213421 (3) 241321	(2) 421241 (4) 123421
4.	What will come in place of question mark(?) ECA, JHF, OMK,? (1)LNP (3) QPN	(2) RPT (4) TRP
5.	How many meaningful two-lettered English words of the English alphabet ? A B C D E F G H I J K L M N O P Q R S T U V W X (1) One (3) Three	
6.	Some letters are given with numbers 1 to 7. Choose English word can be made: S O U B R C E 1 2 3 4 5 6 7 (1) 4216573 (3) 2146357	e the order of the letters by which a meaningful (2) 2416537 (4) 2416357
7.	Which of the following letters will come in place English alphabet ? BZA DYC FXE ? JVI (1) HUG (3) HWG	of question mark (?) in the Chain of letters of (2) UHG (4) WHG
8.	Choose the word from the following alternatives given word: COMPREHENSION (1) COMPRISE (3) ONION	which cannot be made with the letters of the (2) PENSION (4) PREACH
9.	Choose the alternative which will complete the follo ZXUQL ? (1) F (3) C	owing sequence: (2)E (4) H
10.	In a code language CENTRAL is written as LART for SEMINAR ? (1) NARMES (3) RANIMES	NEC then in that language what will be written (2) MESIRAN (4) NARISEM
11.	By using the letters of the word 'AIPR' only once made ? (1) One (3) Three	e how many meaningful English words can be (2) Two (4) Four

12.	In the given question if the letters of the word are rearranged then comes the name of one of which of the following alternatives? LORAMIGD			
	(1) Bird (3) Tree	(2) Animal (4) Flower		
13.	By using, the letters of 'ADER only once how man (1) One (3) Three	y meaningful English words can be made? (2) Two (4) Four		
14.	If in a code language HANUMAN is written as that code language ?	MFSZRFS, then what will BINAY be written in		
	(1) GSNTD (3) GSNDT	(2) GNSFD (4) GNSDT		
15.	If in a code language MOTHER is written as OQV (1) CJUVGT (3) TJTUES	JGT, then what way SISTER will be written ? (2) TJTUFS (4) UKUVGT		
16.	If in a code language A is written as 2, B is w language 12 10 10 8 will be written as	ritten as 4 and C is written as 6, then in that		
	(1) DEEP (3) DEAF	(2) DOOR (4) FEED		
17.	In a symbolic language POCKET is written as QN written?	DJFS, then in that language what will DEAR be		
	(1) EDBQ (3) EDCQ	(2) CFBQ (4) EFDQ		
18.	In a code language CHAIR is written as EGCHT, t (1) NSNXD (3) NRNUD	hen in that language PROVE will be written as (2) RPPVG (4) RQQUG		
19.	As 'warrior' is related to 'battlefield' in the same wa (1) Shop (3) Stage	ay to what is 'Steward' related ? (2) Restaurant (4) Garage		
20.	As 'white pigeon' is related to 'peace', in the sar	ne way 'black colour' is related to which of the		
	following? (1) Hospital (3) Sorrow	(2) Power (4) Bravery		
21.	As 'Chicago' is related to America, in the same wa			
	(1) Egypt (3) India	(2) Australia (4) England		
22.	As the 'Publisher' is related to 'Book, in the same v (1) Director (3) Producer	way 'Film is related to (2) Actor (4) Hero		
23.	As 'Lotus' is. related to 'India', in the same way 'G			
	(1) Jasmine(3) Chrysanthemum	(2) Rose (4) White Lily		
24.	Tripura: Agartala :: Mizoram:? (1) Aizawl	(2) Imphal		
	(3) Kavaratti	(4) Silvassa		

25.	Rohu : Fish:: Bat: ? (1) Amphibian (3) Mamma	(2) Reptile(4) Aquatic
26.	Thermometer : Temperature :: Lactometer: ? (1) Purity of curd (3) Purity of water	(2) Purity of milk(4) Atmospheric pressure
27.	Shyam is son of Ram and maternal brother of Jadu (1) Paternal uncle (3) Father	, then how is Ram related to Jadu ? (2) Maternal uncle (D) Maternal grandfather
28.	In a marriage reception, pointing to a lady a mar father-in-law of my eldest paternal brother'. What is (1) Husband's younger brother (3) Nephew	
29.	Second : Time :: Pascal: ? (1) Resistance (3) Potential	(2) Illumination(4) Pressure
30.	B is the sister of A and C is the mother of B. How is(1) Mother(3) Maternal aunt	C related to A ? (2) Father (4) Maternal grandfather
31.	Following the pattern of the following letter series fil ak, eo, is, qa, ue (1) lv (3) nx	l in the blank. Space: (2) mw (4) oe
32.	What will come next in series? D, H, L, P, (1) Q (3) U	(2) S (4) T
33.	10J, 13M, 17Q, 20T, (1) 24X (3) 26Z	(2) 25Y (4) 23V
34.	Telephone: Graham Bell : : Electric Bulb :? (1) J.L. Baird (3) James Watt	(2) Thomas Alva Edison (D) G. Marconi

Q: 35-40 In each of the following questions a group of three pictures are gives you have to find out the fourth picture. You have to select the answer from 1, 2, 3 or 4



	37.										
		A	В	С	D	-	1	2	3	4	
	38.		\bigcirc	\bigcirc					\bigcirc		
		A	В	С	D	-	1	2	3	4	
	39.	\downarrow	~	1			\downarrow	<i>←</i>	\rightarrow	7	
		A	В	С	D	J	1	2	3	4	
	40.										
		A	В	C	D	-	1	2	3	4	
41.	as (1) YUVKIXKY (2) FAITHFUL										
42.	 (3) TOPSBRASS (4) TOPSECRET 2. If TOM = 48 and DICK = 27 then HARRY will mean (1) 50 (2) 60 (4) 80 										
43.	 If in a code language SISTER is written as 535301, UNCLE is written as 84670 and BOY is written as 129 then in that language SON will be written as (1) 923 (2) 524 (3) 342 (4) 872 										
44.											
	will be written for(2) NGRIST(1) STRING(2) NGRIST(3) STRING(4) STRIGN										
45.	45. Rita is taller than Neeta but shorter than Sita. Sita is shorter than Gita then who is the tallest among them?										
	(1) F (3) S						(2) Neet (4) Gita				
46.	46. If in a code language FIRE is written as DGPC, then in that code language SHOT will be written as										
		QMR QFMR					(2) QMF (4) QRE				
47.	 In the way 'horse' is related to 'run' in the same way 'bird' is related to (1) move (2) run (3) crawl (4) fly 										

50. In the way India is related to Ashok Chakra, the same way Sri Lanka is related to (1) Lify (2) Lion and sword (3) Moon and star (4) Red star 51. In the way 'Hockey' is related to 'India' in the same way 'Spain' is related to (1) Baseball (2) Bull fight (3) Football (4) Ice hockey 52. In the way 'Santhal' is related to 'India', in the same way 'Negro' is related to (1) Japan (2) Germany (3) Africa, America (4) Nepal 53. In the way 'Red Fort' is related to 'Delhi', in the same way 'Pyramid' is related to (1) New York (2) Egypt (3) London (4) Berlin 54. In the way 'Red Fort' is related to 'Delhi', in the same way ornaments are related to (1) Goldsmith (2) Cobbler (3) Carpenter (4) Dance director 55. In the way 'area' is related to 'hectare', the same way 'radian' is related to (1) Heat (2) Potential (3) Resistance (4) Angle 56. The relation that exists between ABC and ZXY, the same relation will exist – between CBA and (1) ZXY (2) BCA (3) XYZ (4) XZY 57. In the way 28 is related to 82 in the same 36 is related to (1) 156 (2) 32 (3) 63 (4) 56 58. Statue of Liberty : USA :: Eiffel tower :? (1) New Zealand (2) (2) France (3) Indonesia (4) Japan 59. In the way Palaeontology is related to fossil in the same way swastik is related to (1) Edod (2) Prosperity (3) Civitization and culture (4) Danger 60. In the way white Pigeon is related to page, the same way Swastik is related to (1) Biood (2) Prosperity (3) Civitization and culture (4) Danger 61.	48. 49.	In the way 'voltmeter' is related to 'potential different (1) Rain (3) Electric current In the way 'Indonesia' is related to 'Jakarta' in the s (1) Melbourne (3) Kathmandu	(2) Earthquake(4) Temperature
(1) Baseball (2) Bull fight (3) Football (4) Ice hockey 52. In the way 'Santhal' is related to 'India', in the same way 'Negro' is related to (1) Japan (2) Germany (3) Africa, America (4) Nepal 53. In the way 'Red Fort' is related to 'Delhi', in the same way 'Pyramid' is related to (1) New York (2) Egypt (3) London (4) Berlin 54. In the way poet is related to poem, in the same way ornaments are related to (1) New York (2) Cobbler (3) Carpenter (4) Dance director 55. In the way 'area' is related to 'hectare', the same way 'radian' is related to (1) Heat (2) Potential (3) Resistance (4) Angle 56. The relation that exists between ABC and ZXY, the same relation will exist – between CBA and (1) ZXY (2) BCA (3) XYZ (4) XZY 57. In the way 28 is related to 82 in the same 36 is related to (1) 56 (2) 32 (3) 63 (4) Japan 59. In the way Palaeontology is related to fossil in the same way pedology is related to (1) Blood (2) Plants (3) S	50.	(1) Lily	(2) Lion and sword
(1) Japan (2) Germany (3) Africa, America (4) Nepal 53. In the way 'Red Fort' is related to 'Delhi', in the same way 'Pyramid' is related to (1) New York (2) Egypt (3) London (4) Berlin 54. In the way poet is related to poem, in the same way ornaments are related to (1) Goldsmith (2) Cobbler (3) Carpenter (4) Dance director 55. In the way 'area' is related to 'hectare', the same way 'radian' is related to (1) Heat (2) Potential (3) Resistance (4) Angle 56. The relation that exists between ABC and ZXY, the same relation will exist – between CBA and (1) ZXY (2) BCA (3) XYZ (4) XZY 57. In the way 28 is related to 82 in the same 36 is related to (1) 56 (2) 32 (3) 63 (4) 56 58. Statue of Liberty : USA :: Eiffel tower :? (1) New Zealand (2) France (3) Indonesia (4) Japan 59. In the way white Pigeon is related to fossil in the same way pedology is related to (1) Bood (2) Prants (3) Soil (4) Tissue	51.	(1) Baseball	(2) Bull fight
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 (1) Blood (2) Plants (3) Soil (4) Tissue 60. In the way white Pigeon is related to peace, the same way Swastik is related to (1) Good luck (2) Prosperity (2) Prosperity (3) Civilization and culture (4) Danger 61. Regarding Ajit, Neelam tells to her friend that 'He is the only son of grandfather of my own brother', then how is Neelam related to Ajit ? (1) Maternal aunt (2) Plants (2) Plants (3) Civilization and culture 	58.	(1) New Zealand	
 (1) Good luck (2) Prosperity (3) Civilization and culture (4) Danger 61. Regarding Ajit, Neelam tells to her friend that 'He is the only son of grandfather of my own brother', then how is Neelam related to Ajit ? (1) Maternal aunt (2) Prosperity (2) Prosp	59.	(1) Blood	(2) Plants
brother', then how is Neelam related to Ajit ? (1) Maternal aunt (2) Sister	60.	(1) Good luck	(2) Prosperity
	61.	brother', then how is Neelam related to Ajit ? (1) Maternal aunt	(2) Sister

62.	Navin, the son of a photographer who is a resident of Nagpur says to Urmila that Prabhat, who is staying in Delhi, is the eldest son of the father of Samir. If mother of Samir is the wife of Navin, then what is the relation Prabhat has with Navin?			
	(1) Son (3) Nephew (sister's son)	(2) Brother (4) Nephew (brother 's son)		
63.	A man walks 12 km towards north. After this he now from, his starting point ? (1) 22 km (3) 5 km	e walks 5 km towards west then how far is he (2) 17 km (4) 13 km		
64.	Pointing to a lady Vijay says that "She is the only s How is the lady related to Vijay ? (1) Daughter (3) Sister	sister of my brother – in – law". (2) Wife (4) Sister – in law		
65.	Pointing to a man in a picture a woman said, my mother". How is the man related to that womar (1) Grandson (3) Son			
66.	At the time of sunrise a boy was doing exercise ground. If his left hand is towards east, then in whit (1) North (3) West			
67.	Facing towards north Rana walked 30 m. The turned left and walked 30 m. Now how far is Rana (1) 80 m (3) 20 m	•		
68.	Bablu started to walk from a point A. After moving 10 m. Again he turned right and walked 12 m, ther has he travelled and in which direction is he ? (1) 40 m, west (3) 39 m, east			
69.	One day before sunset Vandana and Chandan w in a chawk. If the shadow of Vandana falls on th Chandan facing ? (1) South – east (3) North			
70.	One morning after sunrise Atul and Rashmi was the shadow of Rashmi falls on left side of Atul ther (1) North (3) East			
71.	Harish is taller than Sameer but shorter than Amb than Sumit. If all of them are made standing incr then who will stand at the end ? (1) Harish			

(1) Harish	(2) Ambuj
(3) Sumit	(4) Vishal

Q. 72-74 According to the information given below answer the following three questions : Four girls A , B, C and D and three boys E, F and G are sitting simultaneously in such a way that any two boys or any two girls will not sit together.

		МАТ		
72.	Who will sit after B ? (1) F (3) D	(2) B (4) C		
73.	Who will sit between C and D ? (1) A (3) G	(2) D (4) C		
74.	Who will sit exactly in the middle? (1) F (3) C	(2) G (4) B		
75.	If the age of Manohar is greater than t then whose age among the three is gr (1) Saroj (3) Manohar	hat of Ankit and the age of Saroj is not greater than Ankit eatest ? (2) Ankit (4) Cannot be decided		
 Q. 76-80 Based on the following information answer the following questions : (A) In a school classes of different subjects – Commerce, Mathematics, English, Hindi, Urdu and Sanskrit are held in weekdays and Sunday is a holiday. (B) Commerce class is on Friday and English is taught on Monday. Urdu class is after Hindi. Sanskrit is taught on Thursday after Urdu. (C) Mathematics class is on one day before holiday. 				
76.	Which subject is taught on Wednesda (1) Hindi (3) English	y? (2) Urdu (4) Sanskrit		
77.	Which subject is taught before Hindi? (1) English (3) Sanskrit	(2) Urdu (4) Mathematics		
78.	The difference of how many days is th (1) 4 (3) 2	ere between Urdu and Commerce classes? (2) 3 (4) 1		
79.	Mathematics class is just after which s (1) Hindi (3) Sanskrit	subject? (2) Mathematics (4) Commerce		
80.	The classes start with which subject? (1) English (3) Commerce	(2) Hindi (4) Sanskrit		
81.	the book of Hindi is just above the book of English and book of Mathematics is just below that book of Physics. If the book of Physics just kept below the book of English then which book is kept bottommost?			
	(1) Physics(3) Mathematics	(2) English (4) Hindi		
Q. 82	-84 Akram, Vikas, Karan and Dinesh are	e seated on chairs around a round table. It is seen that		

- nd a round table. It is seen that Q. 82 seated or CI ou A. Akram is seated in front of Vikas
 - B. Dinesh is seated in front of Karan

C. Dinesh is seated at the left of Akram

82. Who is seated at the left of Vikas? (1) Dinesh

(2) Akram

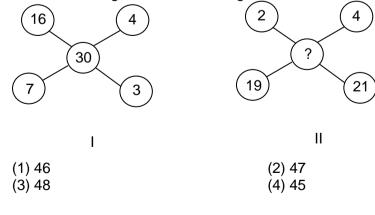
(3) Karan

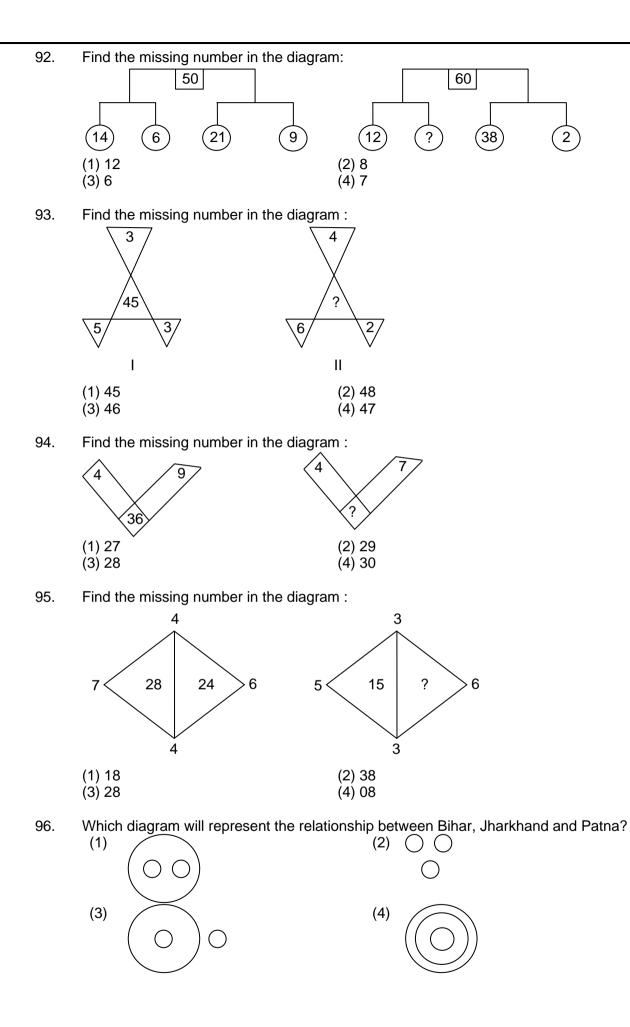
- (4) Cannot be decided
- 83. Who is not seated at either right or left of Dinesh? (2) Akram
 - (1) Vikas
 - (3) Akram or Vikas (4) Karan
- 84. Which statement is not correct?
 - (1) Karan is seated in front of Dinesh
 - (2) Akram is seated at the left of Karan
 - (3) Vikas is not seated in front of Akram
 - (4) Vikas is seated at the left of Dinesh
- 85. Which of the following names will come second in the telephone directory?
 - (1) Raman (2) Rana
 - (3) Rahul (4) Rajan
- Q. 86-90 Six books are kept one after the other. History book is just above Civics book, which is just above the Mathematics book. Computer book is not at the topmost. There are four books in between English and Physics books. English book is at topmost and Computer book is just below the English book.

(2) History

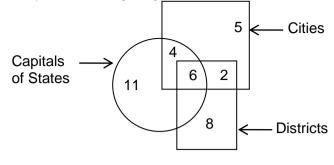
(4) 4

- 86. Which book is in between Civics and Computer books?
 - (1) Mathematics (2) English
 - (3) History (4) Physics
- 87. How many books are above Physics book?
 - (2) 2 (1) 1
 - (3) 3 (4) 5
- 88. Which book is at bottommost?
 - (1) Computer
 - (3) Civics (4) Physics
- 89. Which book is just below the History book?
 - (1) Civics (2) Mathematics
 - (3) Physics (4) Computer
- 90. How many books are there in between Computer and Physics books? (2) 2
 - (1) 1
 - (3) 3
- 91. Find the missing number in the diagram :





97-100.Study the following diagram and choose the correct alternatives given under each question :



- 97. How many such cities are there which are neither capitals of states nor districts? (1) 6 (2) 5
 - (3) 4 (4) 7
- How many such cities are there which are also capitals of states? 98.
 - (1) 4 (2) 8 (3) 6(4) 11
- 99. How many such districts are there which are cities as well as capitals of states?
 - (1) 11 (2) 8 (3) 7 (4) 6
- 100. How many such cities are there which are also districts?
 - (1) 8 (2) 1 (3) 3 (4) 2