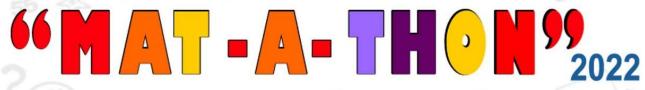


Udaipur's Biggest Mental Ability Test



CLASS –X

Time: 90 Min. Date: 21-08-2022 Max. Marks: 60

GENERAL INSTRUCTIONS

TEST PATTERN					
Time	Total No. of Questions	Subject/Question Segregation			
90 Minutes	1 - 60	Mental Ability (1-60)	Objective Question	1 Mark	0.25 Mark

- A student has to write his/her answers in the OMR sheet by darkening the appropriate bubble with the help Of Ball pen only as the correct answer(s) of the question attempted.
- 2. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
- 3. Write your Name & Roll No. in the space provided in the bottom of this booklet.
- Before answering the paper, fill up the required details in the blank space provided in the OMR sheet.
- In case of any dispute, the answer sheet available with the institute shall be final.
- In case of tie, younger student will get top rank.

NAME OF THE CANDIDATE :	ROLL NO. :
I have read all the instructions	I have verified the identity, name and roll number
and shall abide by them	of the candidate.

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MENTAL ABILITY

Straight Objective Type
This section contains 60 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which ONLY ONE is correct.

1.	THRICE us UJUMHK, t (A) FRVBMT	hen EQUALS is (B) FPVZMU	(C) FSXEQY	(D) FRWDPX	
2.	NUMBER is OTNAFQ, (A) TSVCDMU	then STUDENT is (B) TUVEFOU	(C) RUVCFMS	(D) TSVCFMU	
3.	In a certain code,01234 (A) COUNTRY	is coded COUNT, 4765 (B) TRYCOUN	as TRAY, how is 01234 (C) RYCOUNT	75 coded? (D) YRCOUNT	
4.				called 'blue', 'blue', is called blour of the sky be called in that	
	(A) Blue	(B) Fish	(C) Rain	(D) Pink	
Directi	 Directions: (5 to 10) Study the given information carefully and answer the questions that follow. There are four people sitting in a row: one each from India, Japan, USA and Germany, but not necessarily in that order, I. They are wearing caps of different colours – green, yellow, red and white, not necessarily in that order. II. One is wearing a kurta and one a T-shirt III. The Indian is wearing a green cap and a jacket IV. The American is not seated at either end V. The persons with kurta and T-shirt are sitting next to each other. VI. The persons with kurta wears a red cap sits next to the Japanese. VII. The Japanese wears a shirt and is not seated at either end. VIII. The man with white cap wears T-shirt and is seated at one end. 				
5.	Who wears the T-shirt? (A) Indian	(B) Japanese	(C) American	(D) German	
6.	Who is wearing a kurta' (A) Indian	? (B) Japanese	(C) American	(D) German	
7.	What is the colour of the (A) Red	e cap worn by the Japan (B) Green	ese? (C) Yellow	(D) White	
8.	Who precedes the man (A) Indian	wearing T-shirt? (B) Japanese	(C) American	(D) German	
9.	Who precedes the man (A) Indian	wearing jacket? (B) Japanese	(C) American	(D) German	
10.	Who proceeds the man (A) Indian	wearing shirt? (B) German	(C) American	(D) Cannot say	
Directions : (11 to 16) Find the missing term					
11.	3, 6, 24, 30, 63, 72, ?, 1 (A) 58	32 (B) 42	(C) 90	(D) 120	
12.	16, 54, 195, ? (A) 780	(B) 802	(C) 816	(D) 824	
13.	1, 3, 7, 25, 103, ? (A) 526	(B) 521	(C) 515	(D) 509	



14. 7, 24, 75, 228, ?

(A) 684

(B) 686

(C) 688

(D) None of these

15. ÀH, DL, GP, JT, ?

(A) MY

(B) NX

(C) MX

(D) NY

16. AF, EJ, IN, OT, ?

(A) UX

(B) UY

(C) UN

(D) UZ

Directions: (17 to 19) Answer the questions based on the following information.

A, B, C, D, E, F and G are consecutive integers, nor necessarily in that order, such that the lowest of these is greater than 50 and the highest is less than 60.

I.
$$E - D + 11 = \frac{G}{4}$$

II. B is the highest and is prime

III. C - D = B - A

IV. A is an odd number and C is an even number

17. The smallest number is

(A) A

(B) D

(C) E

(D) F

18. The number C denotes

(A) 56

(B) 57

(C) 58

(D) None of these

19. E - A is equal to

(A) 4

(B) 3

(C)2

(D) 1

Directions: (20 to 24) Refer to the data below & answer the questions that follow.

	А	В	С
1			
2			
3			

- The cells contain the numbers 1 to 9
- Sum of the numbers in column C is 14
- The number 7 is in column B; its left hand neighbor is not 4
- The digits in column C arranged in a random order.
- Column A contains no odd digits
- Cell C3 minus Cell C2 equals 4
- The three digits in row 1 add up to 17
- The number 2 is not in the same row as 8.
- 9 is not immediately below 3.

20. The number 4 is in cells

(A) B1

(B) A3

(C) C2

(D) A1

21. The number 1 is in cell

(A) B2

(B) B3

(C) C2

(D) A2

22. The number 9 is in cell

(A) B1

(B) B3

(C) C1

(D) A1

23. Highest sum of the elements in the row is

(A) 18

(B) 13

(C) 17

(D) 19

24. The highest sum of the elements in the column is

(A) 18

(B) 13

(C) 17

(D) 19

25.	winner			number of matches played to	decide the
	(A) 128	(B) 127	(C) 64	(D) 129	
26.	1 through 127 rupee	s can be paid by jus		t piggy-banks so that any intege gy banks without having to brea red? (D) 10	
27.	don't' know whether scale and it'll tell you	it is heavier or light which side is heavi	ter. You also have a	. One of them has different weig scale. You can coins on both si iddle if both sides weigh the sam in. (D) 6	ides of the
		. ,	, ,	, ,	
28.	in the sense that each The weight of a sing packet. In how many I: A weighing balanct II: A weighing machi	ch cigarette in that page non-defective cig weighing can he defe, which can only cone, which can read to	ack weighs one gram garette is 2.5grams H initely identify it if he h mpare weights he exact weights		the packs.
	(A) I : 1 and II : 3	(B) I : 3 and II : 3	(C) I:3 and II	: 5 (D) I : 3 and II :1	
Directi	1. A ,B, C, D and E a	tre five men sitting in line parallel to the fir to the left of D, is opposite to each who is just next right to left of Q, is opposite	est line and are facing to cosite to Q. ch other. c of M.	while M, N, O, P and Q are five	ladies
29.	Who is sitting third to (A) Q	the right of O? (B) N	(C) M	(D) Data inadequate	
30.	If B shifts to the place second to the left of to (A) Q			hifts to the place of B, then who (D) D	will be the
	• •	. ,		, ,	
31.	Which of the following (A) EQ	g pair is diagonally o (B) BO	pposite to each other (C) AN	? (D) AM	
32.			hange their positions, person second of the (C) E	then who will be the second per ight of P ? (D) O	son to the
33.	In the original arrang (A) B	ement who is sitting (B) A	just opposite to N ? (C) C	(D) D	
34.	If > denote +, < denote the correct statement (A) $14 > 18 + 9 = 16$ (C) $3 < 6 \div 4 > 25 = 8$	t in the following que + 4 > 1	stions. (B) $4 > 3 \div 8 <$	es =, × denotes > and = denotes 1 - 6 + 2 > 24 < 6 × 25 + 5 > 6	<, choose
35.				direction, then 180° in the ant ction is he facing now? (D) South-East	i-clockwise
36.			the following shows th	er B; A % B means A is the father at P is the maternal uncle of Q?	er of B and



37.	Introducing Sonia, Aam related to Aamir?	ir says, "She is the wife o	of only nephew of only b	rother of my mother." How Sonia is	
	(A) Wife	(B) Sister	(C) Sister-in-law	(D) Data is inadequate	
38.	In a row of boys, Kapil is eighth from the right and Nikunj is twelfth from the left. When Kapil and Nikuri interchange positions, Nikunj becomes twenty first from the left. Which of the following will be Kapil position from the right after interchanging?				
	(A) 8th	(B) 17th	(C) 21st	(D) Canont be determined	
39.	immediately preceded b		•	nediately followed by 3, but not (D) Four	
Direction	on (40 to 41) : Find out	the wrong number in the	ne series.		
40.	7, 8, 18, 57, 228, 1165,	6996			
	(A) 8	(B) 18	(C) 57	(D) 228	
41.	10, 26, 74, 218, 654, 19 (A) 26	946, 5834 (B) 74	(C) 218	(D) 654	
Direction	Directions (42): In each of the following questions some letters are missing, which are shown by "_". The missing letters are given in the proper sequence as one of the alternatives among the four given under each question.				
42.	a _bccb_ca_cca_baab_ (A) ababc	_c (B) abcaa	(C) bacaa	(D) accab	
43.		ond letters interchange to tters and so on, which let (B) I		rly the third and the fourth letters, your right? (D) J	
44.	If TRAIN is coded as R I(A) QAMMRCP	PYGL the code for SCOO (B) QBNNRCP	OTER would be (C) QAMMSBP	(D) QBNNSBP	
45.	DRIVER = 7 , PEDEST (A) 9	RIAN = 11 , ACCIDENT : (B) 8	= ? (C) 6	(D) 18	
Direction	on (46 to 47) Find the n	nissing term.			
46.	4 5 6 2 3 7 1 8 3 21 98 ?				
	(A) 94	(B) 76	(C) 73	(D) 16	
47.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	15 ? 3			
	(A) 94	(B) 76	(C) 73	(D) 16	
48.		s, kunal is placed sevent exactly in between the tv (B) 10		as Sonali is placed ninth from on from Pulkit? (D) 13	
49.	Pointing to a photograp	h of a boy Suresh said, "	He is the son of the only	son of my mother." How is	
	Suresh related to that b (A) Brother		(C) Cousin	(D) Father	

50. Rahul put his timepiece on the table in such a way that at 6 P.M. hour hand points to North. In which direction the minute hand will point at 9.15 P.M.? (A) South-East (B) South (C) North (D) West 51. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place? (A) West (B) South (C) North-East (D) South-West 52. If South-East becomes North, North-East becomes West and so on, What will West become? (A) North-East (B) North-West (C) South-East (D) South-West Directions (53 & 54) In the following question a word is represented by only set of numbers as given in any of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as given in the two matrices. The columns and rows of matrix I are represented from 0 to 4 and that of matrix If from 5 to 9. A letter from these matrices can be represented first by its row and next by Colum number. E.g. In the matrix A can be represented by 13, 23 etc. T can be represented by 58, 65 etc. Similarly you have to identify the set of for the word in the question. MATRIX I MATRIX II 0 1 2 3 4 5 8 9 0 0 М S R Т D Р F 5 1 Α F Μ Т 1 S R 0 6 ı Ρ D 2 O R F 7 Т D Р М S ī Α S 3 R F 0 Μ 8 P Т D S F O М R D 53. **MOST** (A) 40, 44, 22, 89 (B) 33, 20, 11, 79 (C) 21, 00, 03, 88 (D) 02, 13, 34, 56 54. **ROAD** (A) 42, 32, 79, 58 (B) 23, 32, 98, 99 (C) 11, 13, 67, 69 (D) 04, 20, 55, 78 Direction (55 to 56): In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives. 55. Arrange the words given below in a meaningful sequence. 1. Key 2. Door 3. Lock 4. Room 5. Switch on (C) 1, 3, 2, 4, 5 (D) 1, 2, 3, 5, 4 (A) 5, 1, 2, 4, 3 (B) 4, 2, 1, 5, 3 Arrange the words given below in a meaningful sequence. 56. 1. Word 2. Paragraph 3. Sentence 4. Letters 5. Phrase (A) 4, 1, 5, 2, 3 (B) 4, 1, 3, 5, 2 (C) 4, 2, 5, 1, 3 (D) 4, 1, 5, 3, 2 57. Read the following information carefully and give the answer. If 'P \$ Q' means 'P is father of Q'; 'P # Q' means 'P is mother of Q; 'P Q' means 'P is sister of Q', then how is D related to N in N # A \$ B D? (A) Nephew (B) Grandson (C) Grand daughter (D) Data Inadequate Directions (58 to 60) Prashant Arora has three children - Sangita, Vimal and Ashish. Ashish married Monika, the eldest daughter of Mr. and Mrs. Roy. The Roys married their youngest daughter to the eldest son of Mr and Mrs. Sharma and they had two children named Amit and Shashi. The Roys have two more children, Roshan and Vandana, both elder to Veena. Sameer and Ajay are sons of Ashish and Monika. Rashmi is the daughter of Amit. 58. How is Sameer related to Monika's Father? (A) Grandson (B) Son (D) Son - in - law (C) Cousin 59. What is the surname of Rashmi? (A) Sharma (B) Roy (C) Arora (D) None of these 60. How is Mrs. Roy related to Ashish? (B) Mother - in -law (C) Mother (D) Sister - in - law