Test Booklet Code



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# NATIONAL TEACHERS COUNCIL

ALL INDIA TALENT SEARCH EXAMINATION						
	2019					
Allowed: 90 Minutes	Class 4	Maximum Mark: 50				

This Test Booklet contains 10 pages. Do not open the Test Booklet until you are asked to do so.

#### Important instructions

Time

- 1. **The Answer Sheet is inside this Test Booklet.** When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars carefully with **blue/black ball point pen only.**
- 2. This question paper contains 50 multiple choice questions each of one mark. The question paper is divided into two sections, **Section A** and **Section B**
- 3. Section **A** is **S**cholastic **A**ptitude Test (**SAT**), contains <u>30 questions</u>. This section covers **Mathematics** & **General Science**
- 4. Section **B** is **M**ental **A**bility **T**est **(MAT)**, **C**omputer **A**wareness and **G**eneral **K**nowledge, contains <u>20 questions.</u>
- 5. Each question should be answered by **darkening** the appropriate circles (A, B, C or D) with a **blue** or **black ball pen**.
- 6. All questions are compulsory. There will be no negative marks for wrong answer.
- 7. Answer recorded once in the answer sheet cannot be altered.
- 8. All rough works should be done only in the space provided for **rough work** in this question paper.
- 9. Calculator is not permitted in the examination hall.
- 10. Candidate should write his / her name in the space provided for the purpose.

Candidate's Name	e :									
Roll Number	:									

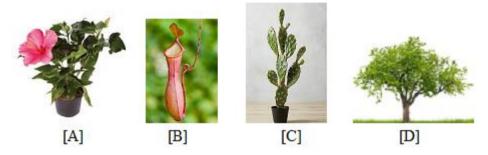
Candidate's Signature

Invigilator's Signature

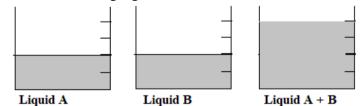
# **SECTION A**

## **SCIENCE (Question No 1 to 10)**

- 1 Water vapour is different from water as
  - [A] Water vapour occupies space
  - [B] Water vapour has no fixed shape
  - [C] Water vapour has no mass
  - [D] Water vapour has no fixed volume
- 2 Select insectivorous plant



- 3 Arun tried to stop a fast moving cricket ball with his hands. The ball neither changed its speed nor its direction. This means Arun
  - [A] Did not apply any force
  - [B] Applied a large force
  - [C] Applied only frictional force
  - [D] Applied a force that was very small
- 4 The function of small intestine is to
  - [A] Remove waste materials [B] Absorb digested food
  - [C] Produce bile
- [D] Kills harmful germs
- 5 Carefully look at the following figure.



This shows that

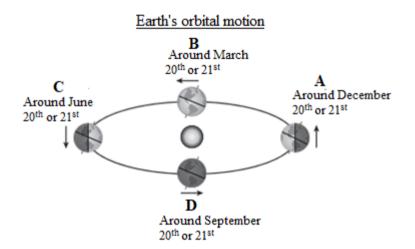
- [A] Liquid A is completely soluble in liquid B
- [B] Liquid A is completely insoluble in liquid B
- [C] Liquid B is partially soluble in liquid A
- [D] Liquid B is partially insoluble in liquid A

6 Generally plants produce oxygen. But Mushrooms cannot produce oxygen because

- [A] The do not respire
- [B] They do not use energy.
- [C] They do not move from place to place.
- [D] They do not have chlorophyll
- 7 The part of earth comprising water is called
  - [A] Atmosphere [B] Hydrosphere
  - [C] Lithosphere [D] Non

[D] None of the above

8 The orbit of Earth around the sun is shown in the following diagram.



In December, the earth is in postion A, which position will earth be in after 18 months have passed?

[A] At position A	[B] At position B
[C] At position C	[D] At position D

9 A runner participating in a race takes some glucose just before the race begins. This means that glucose

- [A] Makes running easier [B] Build muscles instantly
- [C] Gives energy instantly [D] Stop sweating of the body
- 10 The given options give names of four birds by cutting every alternate letter starting from first. All of these have similar feet except one. Select this odd one out.
  - [A] PDJUKCLKO [B] MSTWVABNS

[C] QPGERNEGPUSIONL [D] AOESMTSRTIUCUHO

MA		estion No 11 to 30)				
1	The expanded form of 300123 is					
		[A] 300000 + 100 +2	20 + 3			
		[B] 300000 + 00000				
		[C] 300000 + 000 + 100 + 20 + 3				
		[D] 300000 + 00 + 1				
2	Find the dividend if	f divisor = 21, quotient = 4				
		[A] 920	[B] 922			
		[C] 923	[D] 924			
3	If <b>00:01</b> is the first	minute of the day, then las	st minute of the day is			
		[A] 12:59	[B] 24:59			
		[C] 23:59	[D] 24:00			
4	How many <b>X</b> symb	ols are needed to represen	t 39 in Roman system?			
		[A] 7	[B] 6			
		[C] 4	[D] 3			
5	What is the smalles brother and at least	-	ren in a family where each child has at least one			
		[A] 4	[B] 5			
		[C] 2	[D] 3			
6	Manju is thinking o number?	f a number. Twice her nur	nber is same as her number plus 5. What is her			
		[A] 2	[B] 3			
		[C] 5	[D] 10			
7	Fill in the blanks					
		45 81	[A] 54, 0, 9			
		(9 (1 ) 4	[B] 36, 18, 72			
		0 $0$ $1$ $2$ $2$ $6$ $8$	[C] 45, 81, 72			
		54	[D] 4, 2, 18			
8	The number of 25 r	aise coins in ₹ 100 is	L J , ,			
		[A] 4	[B] 40			
		[C] 100	[D] 400			

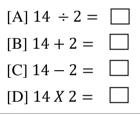
19 The distance between the centre of the circle to any point on the circle is called

[A] Centre	[B] Radius
[C] Chord	[D] Diameter

20 There are 8 chairs at each table in a restaurant. There are 96 chairs in all. Which number sentence can be used to find the number of tables in the restaurant?

[A] 
$$8 \times 96 =$$
 [B]  $96 -$  [=  $8$   
[C]  $8 +$  [=  $96$   
[D]  $96 \div 8 =$  []

21 Every day Sindhu and her family have 2 newspapers delivered to their house. When they came back from a trip, there were 14 newspapers waiting for them. Which one of the following number sentences can be used to find the number of days they were gone?



A car travelled from town A to B and then from town B to town C. The distance between towns A & B is 4364 km and between towns B & C is 5473 km. What is the total distance travelled by the car?

[A] 9834	[B] 6453
[C] 9837	[D] 5463

23 Which of the following statements is Correct?

[A] Two parallel lines meet at one point

[B] Two perpendicular lines never meet

[C] Two parallel lines are always at equal distance apart

[D] Two perpendicular lines form an acute angle

24 Read the expressions P and Q and choose the correct option

### $\mathbf{P: XI + XI = XXII}$

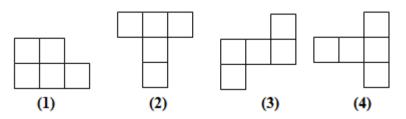
### $\mathbf{Q: X + X = X}$

[A] P is correct

[B] Q is correct

 $\label{eq:construct} [C] Both P \& Q \mbox{ are correct} \quad [D] \mbox{ Both } P \& Q \mbox{ are incorrect}$ 

25 The length of the boundary of a plane figure is called its perimeter. All the following shapes are made with five equal squares of side 1 unit.



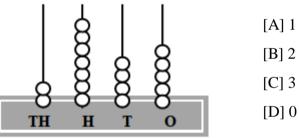
Which of the following statement regarding the perimeter of the above figure is correct?

[A] All the four shapes have same perimeter.

[B] Shapes 1 and 2 has equal perimeter

[C] Shapes 2, 3, and 4 have equal perimeter

- [D] Shape 1 has largest perimeter
- 26 Arun has to represent a number between 2680 and 2545 on the abacus given below. How many beads from hundreds place he needs to remove to represent such a number on the abacus given below?



There are four sections in class IV of ABC School and each section has 37 students. If the 27 monthly fee of each student is ₹ 928, what is the total amount of fees collected from class IV of the school in a month?

[A] ₹ 34336	[B] ₹ 137344
[C] ₹ 173434	[D] ₹ 43363

Which number will come in the place of *#* in the following? 28

$\frac{1}{9} + \frac{4}{9} + \frac{\#}{9} = 1$	
[A] 1	[B] 3
[C] 4	[D] 5

Sameer joined a 3 week computer course which completed on 4<sup>th</sup> August 2018. When did he 29 join the computer course?

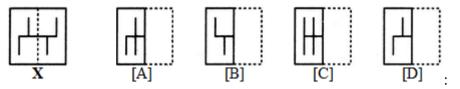
[A] 11 <sup>th</sup> July 2018	[B] 13 <sup>th</sup> July 2018
[C] 14 <sup>th</sup> July 2018	[D] 4 <sup>th</sup> July 2018

13<sup>th</sup> July 2018

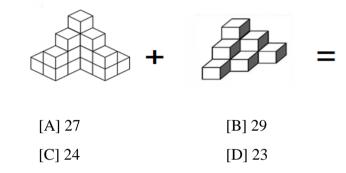
30 Manju went to a stationary shop. She purchased 4 note books costs ₹ 20 each and 2 pens costs ₹ 16 each. After paying the bill, ₹ 18 is left with her. How much money did she have before paying the bill?

	paying the bin?		
	[A] ₹ 12	8	[B] ₹ 126
	[C] ₹ 13	2	[D] ₹ 130
			_
		<b>SECTION B</b>	
31	Total number of states	in India as on today is	
		[A] 30	[B] 29
		[C] 28	[D] 26
32	Who is popularly know		
		[A) Vallabbhai Patel	[B] Bal Gangadhar Tilak
		[C] Jawaharlal Nehru	[D] Subhash Chandra Bose
33	Identify the state of Ind		
	, , , , , , , , , , , , , , , , , , ,	Jharkhand Swarmone	
		in how	
	Chatishgarh A	Strengther Strengther	[A] Karnataka
	( Tang	and the second sec	[B] Tamil Nadu
	San and	Annest Annest	[C] Odisha
	}	Ann Anno Anno Anno Anno Anno Anno Anno	[D] Maharashtra
	2 Since Marine		[-]
24			
34	Find the odd one out:		
		[A] Volcano	[B] Tsunami
		[C] Explosion	[D] Earthquake
35	Replace the question m	ark?	
	× 1	INT	
			• —
	- ◆	• ফ্র	$\bigcirc$ $\square$
	[Å]	[B]	[C] [D]

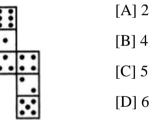
36 Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line



37 How many cubes are there in picture?



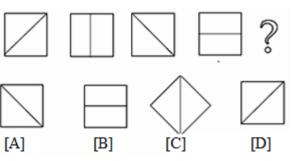
38 How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?



39 Select the alternative in which the specified components of the key figure (X) are found.

		.≙∕ \$
X	1 2 3	4
[A] 1	[B] 2	
[C] 3	[D] 4	

40 Replace the question mark.



41	Correlato de a acrisor						
41	Complete the series:	. 2, 5, 11,	23 17 9				
		[A] 113	[B] 63				
		[C] 79	[D] 95				
42	Complete the series						
12	complete the series	A, B, D, G,	<b>K</b> . ?				
		[A] P	[B] O				
		[C] Q	[D] N				
43	From the given alternation of the given word:	tive of words, select the word	which cannot be formed using the letters				
	Word: <b>(</b>	COMPREHENSIVE					
		[A] SEVEN	[B] HENCE				
		[C] HERE	[D] WHENE				
44	Find the odd one out						
		[A] Swimming	[B] Breathing				
		[C] Walking	[D] Playing				
45	Find the odd one out						
		[A] Mountain	[B] Plateau				
		[C] Desert	[D] River				
46	If <b>EDUCATION</b> is wr	itten as 5421312091514 then					
		[A] 13120	[B] 312				
		[C] 3120	[D] 31209				
47	Which is not a type of	•					
		[A] Top	[B] Center				
40	The Control Dracesing	[C] Left	[D] Right				
48	The Central Processing	g unit (CPU) consists of [A] Control unit	[P] Arithmetic and logic unit				
		[C] Main store	<ul><li>[B] Arithmetic and logic unit</li><li>[D] all of above</li></ul>				
49	Microsoft word is an e						
47	wheresone word is an e.	[A] An operating system	[B] Processing device				
		[C] Application software	[D] An input device				
50	Blue tooth technology						
50	Dide tooth teenhology	[A] Landline phone to mob	ile phone communication				
		[B] Wireless communicatio	-				
		[C] Signal transmission on					
		[D] Satellite television com					

## SPACE FOR ROUGH WORK