SAMPLE PAPER





National Cyber Olympiad

The actual test paper has 50 questions. Time allowed: 60 minutes. There are 3 sections, 15 questions in section I, 15 in section II and 20 in section III.

SYLLABUS

Section — I (Mental ability) : Numerals and number names, Addition, Subtraction, Multiplication, Division, Time, Calendar, Measurement of weight and capacity, Geometrical shapes, Money.

Section – II (Logical and analytical reasoning) : Problems based on figures, Find odd numeral out, Series completion, Coding-decoding, Mathematical reasoning, Analytical reasoning.

Section – III (Computers and IT): About computers (General information), Parts of a computer, Applications of computers, Start and shut down a computer, Keyboard, Computer mouse, Fun with paint.



National Science Olympiad

The actual test paper has 50 questions. Time allowed: 60 minutes. There are 2 sections, 20 questions in section I and 30 in section II.

SYLLABUS

Section — I (Mental ability): Numerals and number name, Addition, Subtraction, Multiplication, Division, Time, Calendar, Measurement of weight and capacity, Geometrical shapes, Money.

Section – II (Science) : The human body, The family, The home, The school, The neighbourhood, Important places, Transport, Life around us, Plants, Animals, Water, The earth.



International Mathematics Olympiad

The actual test paper has 50 questions. Time allowed: 60 minutes. There are 3 sections, 20 questions in section I, 20 in section II and 10 in section III.

Section - I: Logical Reasoning, Section - II: Mathematical Reasoning &

Section – III: Everyday Mathematics

SYLLABUS

Numerals and number name, Addition, Multiplication, Division, Fractions, Money, Length (conversions), Weight, Capacity, Time, Point, Line and plane Figures.



(A) 58

National Cyber Olympiad

	WIENTAL ADILITY				
1.	Which set of numbers will give the greatest answer?				
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
	(A) P	(B) Q	(C) R	(D) S	
2	. ,	makes 49.	(0)	(=)	
2.	7 groups of (A) 9	(B) 7	(C) 4	(D) 3	
_		· · ·		· , ,	be Dressesses the
3.		-	e caught 2 more fish than h h of the following could be		
	(A)	(B) □ -2	(C) □ × 2	(D)	2
4.	I am thinking of a the number I am t		e the number and add 9 to	the result, the a	answer is 29. What is
	(A) 38	(B) 29	(C) 18	(D) 10	
5.	In science class, S	amir recorded the follo	wing amounts of rainfall	AMOUNT OF RA	AINFALL RECORDED
	for one 4-day peri			Day of Week	Amount of Rainfall
	•	e week did Samir rec	ord the least amount of	Monday	0.12 mm
	rainfall?			Tuesday	0.02 mm
	(A) Monday		(B) Tuesday	Wednesday	0.21 mm
	(C) Wednesday		(D) Thursday	Thursday	0.11 mm
		girl, girl, boy, boy girl, e same pattern, what a (B) Boy, girl	girl, boy, <u>?</u> ? are the next two students in (C) Girl, boy	n line? (D) Girl, ç	girl
7.			book shows the time they let	ft in the morning	in the morning 1112 1 10
This clock shows the time they returned home the How many hours were they on their fishing trip?		ing trip?	in the after 11 12 10 19 8 8 7 6	21 21 33 44 55	
	(A) 1 hour	(B) 5 hours	(C) 6 hours	(D) 7 hou	IIS
8.	Which is the great		(0) 070	(D) 007	
	(A) 345	(B) 354	(C) 376	(D) 367	
9.	There are 79 anim		er. 27 are dogs and 31 are	cats. The rest ar	e rabbits. How man

(C) 48

(D) 21

(B) 152

10.	Anil is an animal doctor could be used to weig (A) Centimetres			day he weighed an	elephant. Which unit of measure (D) Metres
11.	Monika has these tools to use in her garden. Which fraction below shows the number of shovels compared to the whole set?		· /	12	
	(A) $\frac{1}{5}$	(B) $\frac{2}{3}$		Hedge Spade Trimmers Shovel	Rake Garden Gloves Shovel
	(C) $\frac{2}{5}$	(D) $\frac{5}{2}$			
		COMPUTERS & INFO	ORM/	ATION TECHNOL	OGY
12.	CD-ROM stands for (A) Central processin (C) CD-resize or mini	•		CD-remote open CD-read only me	
13.	The device which is used (A)	sed to store information	(B)		
	(C)		(D)		
14.	CPU is called <i>the brai</i> (A) Control Processir (C) Central Processir	•	(B)	s CPU stands for ? Calculations Proc Computer Proces	_
15.	the space of one char				umbers. If pressed once, it gives
	(C) Enter		(B) (D)	∯ Shift	
16.	A blinking symbol on to (A) Delete key	the screen that shows w		he next character Cursor	will appear is (D) Return key
17.	The computer monitor (A) Output	r is which type of device (B) Input		Processor	(D) Software
18.	Leela wants to send a (A) Word processing (C) Spreadsheet	n electronic message to	(B)	riend. She should u E-mail Paper and pencil	use which type of application?
19.	A keyboard is which k	ind of device ? (B) Input	(C)	Output	(D) Word processing
20.	A light weight & comp	pact machine, capable c	of doin	ng everything whic	h a desktop computer can do, is
	(A) CD-ROM	(B) Scanner	(C)	Printer	(D) Laptop
			3		

National Science Olympiad

MENTAL ABILITY

1. Look at the number sentence below.

What number is missing from the number sentence?

(A) 0

(B) 10

(C) 17

(D) 64

2. Which of these number sentences is true?

(A) 12-5=11-6

(B) 12-5=12-7

(C) 12-5=15-2

(D) 12-5=16-9

3. Dolly made the number pattern below.

3, 6, 9, ?, ?, 18

What two numbers are missing from the pattern?

(A) 10, 11

(B) 12, 15

(C) 13, 15

(D) 19, 20

4. Which of these numbers has an 8 in the tens place?

(A) 18

(B) 98

(C) 281

(D) 862

The table below shows how many minutes Raghav practiced playing the piano last weekend. Raghav's Piano Practice

•		
Day	Time	
	(in minutes)	
Friday	25	
Saturday	30	
Sunday	29	

How many minutes did Raghav practice playing the piano in all?

(A) 74 Minutes

(B) 79 Minutes

(C) 84 Minutes

(D) 85 Minutes

6. Ram's cat had 8 kittens as shown below. Ann kept $\frac{1}{4}$ of Ram's kittens. How many kittens did Ram have now?



(A) 1 Kitten

(B) 2 Kittens

(C) 4 Kittens

(D) 6 Kittens

Which clock shows 3:20?







(D)



8. Manjit walks to school each day. Which of these best describes how long it takes Manjit to walk to school?

(A) Centimeters

(B) Inches

(C) Seconds

(D) Minutes

9. A pilot flies 728 kilometre. Which is another way to write this number?

(A) Seven hundred eighty-two

(B) Seven hundred thirty-eight

(C) Seven hundred twenty-eight

(D) Seven hundred fourty-eight

10.			taller than Kevin. Ali	is 48 inches tall. Kevin is	
	45 inches tall. How tall (A) 51 Inches	ii could Kapii be?	(B) 48 Inches		
	(C) 47 Inches		(D) 45 Inches		
	(0)		(=) 10		
			SCIENCE		
11.	Which of the given fig	gures represents the	organ that helps in breathin	g ?	
	(A)	(B)	(C)	(D)	
12.	My father's nephew or niece is my				
	(A) Cousin	(B) Uncle	(C) Aunt (D)	Brother-in-law	
13.	The person in the give (A) Doctor (B) Soldier (C) Diver (D) Astronaut	en figure is a/an			
14.	The given figure show (A) Maths	vs a microscope. W	hich subject is it related to? (B) Geography		
	(C) History		(D) Science		
15.	Which of the following	g mode of transport	does not have an engine an	d are not pulled by animals?	
	(A) Cycle	(B) Tonga	(C) Jeep	(D) Car	
16.	To which place of wor	ship does Sikhs go	to pray ?		
	(A) Temple	(B) Mosque	(C) Church	(D) Gurdwara	
17.	Which of the following	g yields fibre ?			
	(A) Barley	(B) Tea	(C) Cotton	(D) Mustard	
18.	If you face the rising sun in the morning, the direction on your left is				
	(A) North		(B) South		
	(C) East		(D) West	The state of the s	
19.	The given figure represents which of the following seasons?				
	(A) Spring		(B) Summer	The TH	
	(C) Monsoon		(D) Winter		
20.	Which of the following figures represent crescent moon ?				
	(A)	(B)	(C)	(D)	



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1.	Largest two digit number is				
	(A) 0 1	(B) 1 0 0			
	(C) 9 0	(D) 9 9			
2.	Total number of leaves in the given figure car (A) 3×3 (C) $3 + 3$	n be found using (B) 3 × 2 (D) 3 + 3 + 2			
	(C) 3+3	(D) 3+3+2	Ø Ø Ø		
3.	An ant has 6 legs. How many legs do 8 (A) 6 + 8 (B) 6 × 8	3 ants have ? (C) 8 – 6	(D) 8 × 5		
4.	Rs. 14 Rs. 10 Rs. 10 Mi What is the total cost of the food items displa				
	(A) Rs. 74 (B) Rs. 84	(C) Rs. 64	(D) Rs. 70		
5.	What note would you use to pay for a Geome (A) 10 rupee note (C) 5 rupee note	etry box costing Rs. 18? (B) 20 rupee note (D) 2 rupee note.			
6.	A leap year is a year that has (A) An extra day (B) An extra week	(C) An extra month	(D) An extra hour		
7.	Number of triangles in the given figure				
	(A) 3 (B) 4	(C) 5	(D) 0		
8.	What will come next in the sequence?		-		
	(A) ((B) \(\sum_{\lambda} \)			
	(C)	(D) \(\square\)			
9.	What will come next in the sequence ?				
		-			
	(A) (B)	(C) \	(D)		



