

**SAMPLE PAPER**

National Cyber Olympiad

The actual test paper has 35 questions. Time allowed : 60 minutes. There are 3 sections: 5 questions in section I, 10 in section II and 20 in section III.

**SYLLABUS**

**Section – I (Mental Ability)** : Numerals and Number Names, Addition, Subtraction, Multiplication as Repeated Addition, Temperature, Time, Calendar, Measurement of Length and Weight, 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)** : Introduction to Computers (General Information), Parts of Computer, Uses of Computer, Learning to use Keyboard and Mouse, Introduction to MS-Paint.



National Science Olympiad

The actual test paper has 35 questions. Time allowed : 60 minutes. There are 2 sections: 10 questions in section I and 25 in section II.

**SYLLABUS**

**Section – I (Mental Ability)** : Numerals, Number Name and Number Sense (3 digit numbers), Addition, Subtraction, Time, Calendar, Measurement of Weight, Length and Temperature, Geometrical Shapes, Money, Problems Based on Figures, Series Completion, Patterns, Find Odd Numeral Out.

**Section – II (Science)** : Plants, Animals, Human Body, Family, Food, Clothes, House and House Makers, Occasions and Festivals, Occupation, Good Habits and Safety Rules, Transport and Communication, Earth and Universe.

International  
Mathematics Olympiad

The actual test paper has 35 questions. Time allowed : 60 minutes. There are 3 sections: 10 questions in section I, 15 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, Number Sense (3 digit numbers), Money, Measurement of Length (conversions), Weight, Time and Temperature, Calendar, Point, Line and Plane Figures, Problems Based on Figures, Patterns, Series Completion, Find Odd Numeral Out, Geometrical Shapes.

International  
English Olympiad

The actual test paper consists of 35 questions. Time allowed : 60 minutes. There are 3 sections.

**SYLLABUS****Section-I: Word and Structure Knowledge**

Nouns, Articles, Pronouns, Simple tenses, Prepositions, etc.

Collocations, Spellings, Words related to animals, Clothes, Body parts, Basic emotions, Food, Animals, Animal sounds, etc.

**Section-II: Reading** : Search for and retrieve information from various text types like stories, short dialogues, etc., Acquire broad understanding of and look for specific information in short texts like messages, invitations, etc.

**Section-III: Spoken and Written Expression** : Ability to understand situation-based variations in functions like thanking, greeting, asking for permission, introducing (oneself), etc.



# National Cyber Olympiad

## MENTAL ABILITY

1. Which set of numbers will give the greatest answer?

|              |              |              |              |
|--------------|--------------|--------------|--------------|
| P<br>$3 + 3$ | Q<br>$8 + 2$ | R<br>$3 + 6$ | S<br>$5 - 4$ |
|--------------|--------------|--------------|--------------|

- (A) P                      (B) Q                      (C) R                      (D) S

2. 7 groups of \_\_\_\_\_ makes 49.

- (A) 9                      (B) 7                      (C) 4                      (D) 3

3. I am thinking of a number. When I double the number and add 9 to the result, the answer is 29. What is the number I am thinking of ?

- (A) 38                      (B) 29                      (C) 18                      (D) 10

4. In science class, Samir recorded the following amounts of rainfall for one 4-day period.

On what day of the week did Samir record the least amount of rainfall?

AMOUNT OF RAINFALL RECORDED

| Day of Week | Amount of Rainfall |
|-------------|--------------------|
| Monday      | 0.12 mm            |
| Tuesday     | 0.02 mm            |
| Wednesday   | 0.21 mm            |
| Thursday    | 0.11 mm            |

- (A) Monday                      (B) Tuesday  
(C) Wednesday                      (D) Thursday

5. Mr. Narayan is lining up his students in this order:

girl, girl, boy, boy, girl, girl, boy, boy, girl, girl, boy, ? ?

If he continues the same pattern, what are the next two students in line?

- (A) Boy, boy                      (B) Boy, girl                      (C) Girl, boy                      (D) Girl, girl

6. Which of the following is the greatest number?

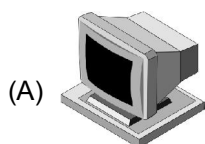
- (A) 345                      (B) 354                      (C) 376                      (D) 367

## COMPUTERS & INFORMATION TECHNOLOGY

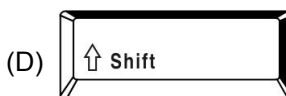
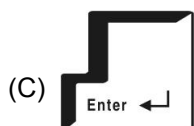
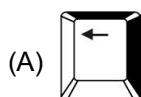
7. CD-ROM stands for

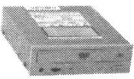
- (A) Central processing unit                      (B) CD-remote open mouse  
(C) CD-resize or minimize                      (D) CD-read only memory

8. The device which is used to store information




9. This is the key which is used to give space after words, alphabets or numbers. If pressed once, it gives the space of one character. It is




10. CPU is called *the brain of the computer*. What does CPU stands for ?  
 (A) Control Processing Unit (B) Calculations Processing Unit  
 (C) Central Processing Unit (D) Computer Processing Unit
- 
11. A blinking symbol on the screen that shows where the next character will appear is  
 (A) Delete key (B) Arrow key (C) Cursor (D) Return key
- 
12. The computer monitor is which type of device ?  
 (A) Output (B) Input (C) Processor (D) Software
- 
13. There are \_\_\_\_\_ shift keys on a keyboard.  
 (A) One (B) Two (C) Three (D) Four
- 
14. A keyboard is which kind of device ?  
 (A) Block (B) Input (C) Output (D) Word processing
- 
15. A light weight & compact machine, capable of doing everything which a desktop computer can do, is called \_\_\_\_\_.
- 


(A) CD-ROM



(B) Scanner



(C) Printer




(D) Laptop

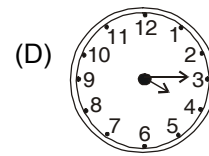
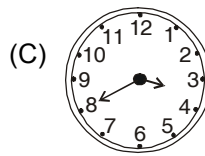
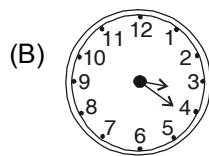
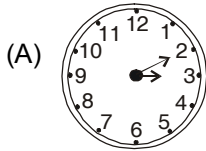


# National Science Olympiad

## MENTAL ABILITY

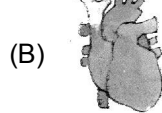
1. Look at the number sentence below.  
 $27 + \square = 37$   
 What number is missing from the number sentence?  
 (A) 0 (B) 10 (C) 17 (D) 64
- 
2. Dolly made the number pattern below.  
 $3, 6, 9, ?, ?, 18$   
 What two numbers are missing from the pattern?  
 (A) 10, 11 (B) 12, 15 (C) 13, 15 (D) 19, 20
- 
3. The table below shows how many minutes Raghav practiced playing the piano last weekend.  
 Raghav's Piano Practice
- | Day      | Time<br>(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
- 
4. Ram's cat had 8 kittens as shown below. Ann kept 4 of Ram's kittens. How many kittens did Ram have now?
- 
- (A) 1 Kitten (B) 2 Kittens (C) 4 Kittens (D) 6 Kittens

5. Which clock shows 3 : 20?



**SCIENCE**

6. Which of the given figures represents the organ that helps in breathing ?



7. My father's nephew or niece is my

(A) Cousin

(B) Uncle

(C) Aunt

(D) Brother-in-law

8. The person in the given figure is a/an

(A) Doctor

(B) Soldier

(C) Diver

(D) Astronaut



9. The given figure shows a microscope. Which subject is it related to ?

(A) Maths

(B) Geography

(C) History

(D) Science



10. Which of the following modes of transport does not have an engine and are not pulled by animals ?

(A) Cycle

(B) Tonga

(C) Jeep

(D) Car

11. To which place of worship does Sikhs go to pray ?

(A) Temple

(B) Mosque

(C) Church

(D) Gurudwara

12. Which of the following yields fibre ?



(A) Barley

(B) Tea

(C) Cotton

(D) Mustard

13. If you face the rising Sun in the morning, the direction on your left is

(A) North

(B) South

(C) East

(D) West



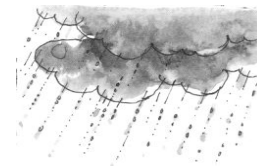
14. The given figure represents which of the following seasons ?

(A) Spring

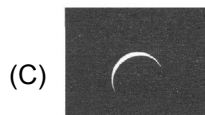
(B) Summer

(C) Monsoon

(D) Winter



15. Which of the following figures represent crescent moon ?





# International Mathematics Olympiad

1. Largest two digit number is

- (A) 

|   |   |
|---|---|
| 0 | 1 |
|---|---|

      (B) 

|   |   |   |
|---|---|---|
| 1 | 0 | 0 |
|---|---|---|

      (C) 

|   |   |
|---|---|
| 9 | 0 |
|---|---|

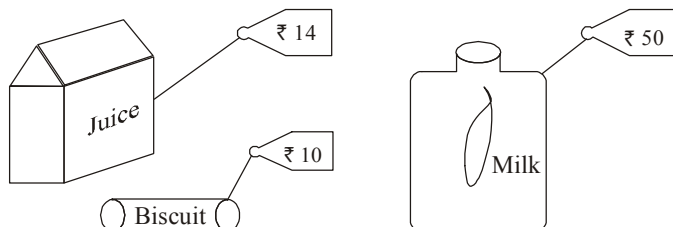
      (D) 

|   |   |
|---|---|
| 9 | 9 |
|---|---|

2. There are 684 pupils in a school. 297 of them are boys. How many girls are there in the school?

- (A) 388      (B) 387      (C) 487      (D) 587

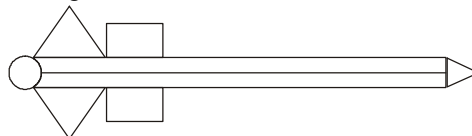
3.



What is the total cost of the food items displayed ?

- (A) ₹ 74      (B) ₹ 84      (C) ₹ 64      (D) ₹ 70

4. Number of triangles in the given figure



- (A) 3      (B) 4      (C) 5      (D) 0

5. What will come next in the sequence ?



- (A) 

|  |
|--|
|  |
|--|

      (B) 

|  |
|--|
|  |
|--|

      (C) 

|  |
|--|
|  |
|--|

      (D) 

|  |
|--|
|  |
|--|

6. Which of the following shows  $\frac{1}{4}$  part shaded ?



7. In 3278, 2 is in which place ?

- (A) Ones      (B) Hundreds      (C) Tens      (D) Thousands

8. 5 Hundreds, 1 ones and 5 tens will make

- (A) 551      (B) 510      (C) 155      (D) 515

9. There are 15 beetles. Ring the beetles into group of 3. How many groups will be formed ?

- (A) 5      (B) 6      (C) 4      (D) 3

10. When arranged in order from smallest to biggest, which number will be at last position in the sequence? 21, 12, 79, 63, 36, 47

- (A) 79      (B) 36      (C) 47      (D) 12

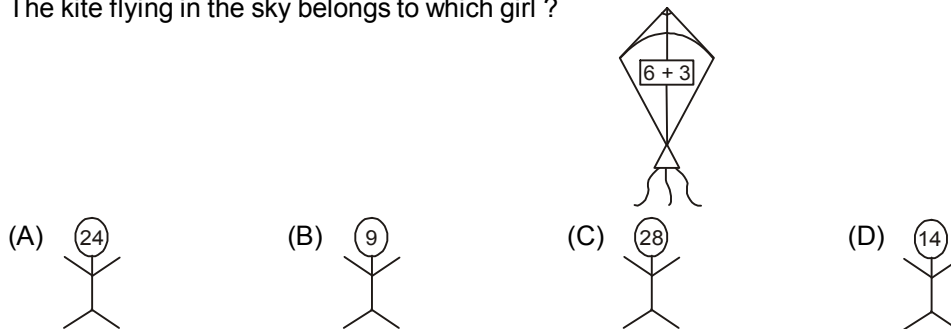
11. Anupriya had ₹ 90. She bought a pair of scissors for ₹ 60. How much amount she has now ?

- (A) ₹ 30      (B) ₹ 40      (C) ₹ 35      (D) ₹ 25

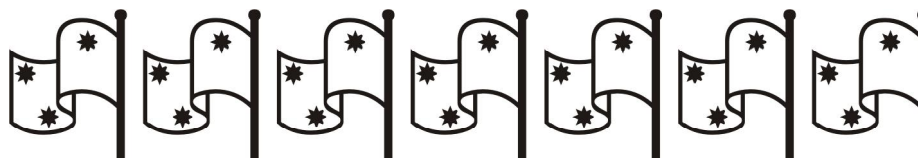
12. Mrs. Tanuja bakes 20 cup cakes. If she packs 4 cup cakes in one box, how many boxes does she need to pack all the cakes ?

- (A) 7 boxes      (B) 6 boxes      (C) 5 boxes      (D) 3 boxes

13. The kite flying in the sky belongs to which girl ?



14. There are 3 stars on a flag. There are 7 such flags. How many stars are there altogether ?



- (A) 20      (B) 21      (C) 28      (D) 27

15. Which of the following digit in 928 is at hundreds place ?

- (A) 2      (B) 0      (C) 9      (D) 8



## International English Olympiad

### WORD AND STRUCTURE KNOWLEDGE

- Find the odd word.  
(A) Airport      (B) Lake      (C) Airplane
- Choose the right spelling.  
(A) Elephant      (B) Elaphent      (C) Elefant
- Choose the right word.



The children are .....

- (A) Dancing      (B) Singing      (C) Playing

**Direction (Q. No. 4 and 5) : Fill in the blanks with the right word.**

- The earth is ..... like a ball.  
(A) Round      (B) Square      (C) Triangle
- I am brown and furry. I am a .....  
(A) Duck      (B) Bear      (C) Lion

**Direction (Q. No. 6 to 9) : Fill in the blanks.**

- He is ..... tall boy.  
(A) An      (B) A      (C) The

7. Rita is my friend. .... is very jolly.  
(A) It (B) They (C) She
- 
8. This ..... John. He studies in Model School.  
(A) Is (B) Was (C) Are
- 
9. The ..... are going to the park.  
(A) Child (B) Children (C) Childrens

### READING



**Direction (Q. No. 10 and 11) : Choose the right sentence.**

10. (A) The children are playing with a ball. (B) The children are flying kites.  
(C) The children are playing with balloons.
- 
11. (A) Ravi has two balloons. (B) Rakhi has one balloon.  
(C) Salim has one balloon.

**Direction (Q. No. 12 and 13) : Read the paragraph and choose the correct sentence.**

Something smells good in the kitchen,  
Sugary, spicy and sweet.  
A pudding? A pie? What can it be?  
Mom's making a special treat.  
So I peep into the kitchen  
And as you all can see,  
That sugary, spicy, sweet surprise  
Is a Birthday Cake for me!

12. What is Mom making in the kitchen?  
(A) A pudding (B) Sugar (C) A Birthday Cake
- 
13. What kind of a surprise is it?  
(A) Shocking (B) Sweet (C) Good

### SPOKEN AND WRITTEN EXPRESSION

**Direction (Q. No. 14 and 15) : Choose the right answer.**

14. Tom: Jerry! Please have some cheese.  
Jerry: .....
- (A) I am not a teacher, Tom. (B) Thank You, Tom.  
(C) The train is late, Tom.
- 
15. Seetha lived in a house with a large garden.  
.....
- (A) There were a lot of books on the table. (B) The school will start tomorrow.  
(C) The garden had many rose plants in it.

