S O F
SCIENCE OLYMPIAD FOUNDATION

SAMPLE PAPER
2014-15

N S O
NATIONAL SCIENCE OLYMPIAD

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

SYLLABUS

Section – I (Mental Ability) : Numerals, Number Name and Number Sense (2 digit numbers), Addition, Subtraction, Length, Weight, Time, Money, Geometrical Skills, Patterns, Odd One Out, Series Completion, Problems Based on Figures.

Section – II (Science) : Plants, Animals, Human Beings and Their Needs, Good Habits and Safety Rules, Air and Water, Weather and the Sky.

Section – III (Achievers Section) : Syllabus as per Section – II.

I M O
INTERNATIONAL MATHEMATICS OLYMPIAD

The actual test paper has 35 questions. Time allowed : 60 minutes. There are 4 sections: 10 questions in section I, 10 in section II, 10 in section III and 5 in section IV.

Section – I : Logical Reasoning
Section – II : Mathematical Reasoning
Section – III : Everyday Mathematics
Section – IV : Achievers Section (Syllabus as per Section – II)

SYLLABUS

Numerals, Number Name and Number Sense (2 digit numbers), Addition, Subtraction, Length, Weight, Time, Money, Geometrical Skills, Patterns, Odd One Out, Series Completion, Problems Based on Figures.

I E O
INTERNATIONAL ENGLISH OLYMPIAD

The actual test paper consists of 35 questions. Time allowed : 60 minutes. There are 4 sections:

Section-I : Word and Structure Knowledge
Section-II : Reading
Section-III : Spoken and Written Expression
Section-IV : Achievers Section (Syllabus as per Sections I, II and III)

SYLLABUS

Jumbled Words, Words and Their Meanings, Words and Their Opposites, Identify the Word From the Picture, Making a Word, Feminine and Masculine, One and Many, Word Pairs, Odd One Out, Animals and Their Babies, Nouns, Verbs, Articles

IN ASSOCIATION WITH
BRITISH COUNCIL

N S O National Science Olympiad

1. Rohan and Mona are playing a game. Mona asked Rohan to move 2 steps away from her. If Rohan is on 7th step, where will he be after moving?
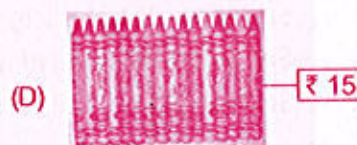
Rohan

Mona

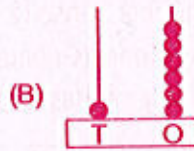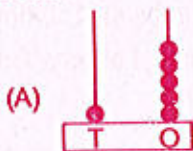| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

(A) 5th step   (B) 3rd step   (C) 9th step   (D) 10th step

2. Rahul has [₹5 note]. Which of the following he can buy?

(A) [ice cream] ₹ 10

(B) [pencil] ₹ 3

(C) [notebook] ₹ 12

(D) [crayons] ₹ 15

3. Which abacus shows one number less than 17?

(A)   (B)   (C)   (D)
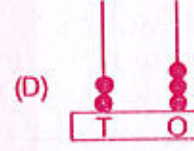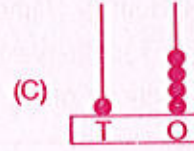
4. Which of the following is the correct order from the tallest to the shortest?

Ella   Mona   Sona   Sohan
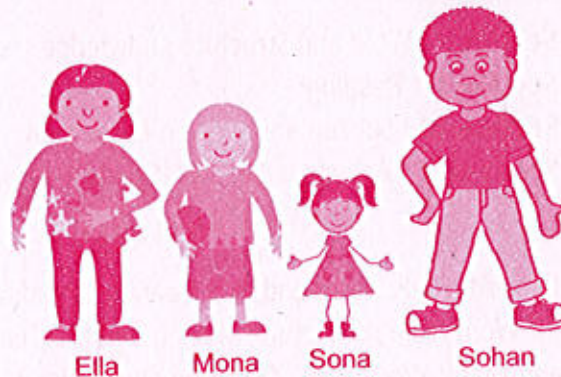
(A) Sohan, Ella, Mona, Sona   (B) Sona, Sohan, Ella, Mona
(C) Ella, Mona, Sona, Sohan   (D) Mona, Sona, Sohan, Ella

5. Given pot has 1 red ball and rest blue balls. How many are blue colour balls?

(A) 7   (B) 6   (C) 5   (D) 4

SCIENCE

6. Look at the picture and complete the following sentence.

Always cross the road at _____ crossing.
(A) Horse   (B) Zebra   (C) Footpath   (D) Traffic

7. Which of the following matches is correct?
(A) Stop - Green light   (B) Wait - Yellow light   (C) Go - Red light   (D) All of these

8. _____ are the seeds of _____

(A) Wheat   (B) Rice   (C) Rajma   (D) Corn

9. I am green and small. I can make you cry. I am a
(A) Pea   (B) Chilli   (C) Ladyfinger   (D) Spinach

10. Unscramble the words given below to get the name of the home of the animal shown in the figure.

'ATSLBE'
(A) Ebstla   (B) Tebsla
(C) Stable   (D) Belsta

11. Select the correct match.

(A) [squirrel] lives in water   (B) [ostrich] cannot fly

(C) [cockroach] has eight legs   (D) [bear] is the largest living animal

12. Which part of our body helps us to hear a bell?

(A) Eye   (B) Nose   (C) Ear   (D) Tongue

13. The picture shows that our house keeps us safe from

(A) The heat of the Sun

(B) Rain

(C) Cold

(D) Strong winds

14. Which of the following statements is INCORRECT?

(A) We cannot feel air but we can see it.   (B) Moving air is called wind.
(C) Air takes up space.   (D) All of these

15. Choose the correct sequence of words to complete the paragraph given below.
Summer days are _____ while winter days are _____. A strong wind blows on _____.
Monsoon days are _____.

(A) Cold, hot, a windy day, rainy   (B) Rainy, cold, a hot day, windy
(C) Hot, cold, a windy day, rainy   (D) Windy, hot, a rainy day, cold

I M O International Mathematics Olympiad

1. Which of the following shows a correct descending order?

(A) 10, 12, 13, 15   (B) 10, 9, 8, 7   (C) 15, 16, 17, 18   (D) 20, 19, 17, 25

2. Latika, Monika and Sonika are sitting in a row. Latika is sitting between Monika and Sonika. Which of the following is the correct order?

(A) | Latika | Sonika | Monika |

(B) | Latika | Monika | Sonika |

(C) | Sonika | Latika | Monika |

(D) | Sonika | Monika | Latika |

3. The frog can jump two steps at a time. If it is at 5th step, where will it be after 2 jumps?

(A) Number line 0 to 10, frog at 5, jumps 5→7→9

(B) Number line 0 to 9, frog at 5, jumps 5→6→7

(C) Number line 0 to 8, frog at 4, jumps 4→5→6→7

(D) Number line 0 to 7, frog jumps 4→5→6→7

4

Class 1

4. Four friends are celebrating their birthdays. The candles on cake show their ages. Who is the eldest?

(A) Ankit   (B) Parul   (C) Ruchi   (D) Anu

5. The shape of ⚽ is looking like a _____.

(A) Cone   (B) Cylinder   (C) Sphere   (D) Cube

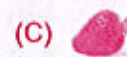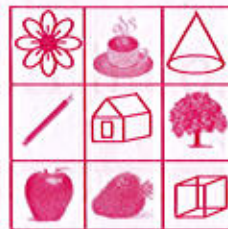**6.** Given two baskets shows the number of apples.

Basket X   Basket Y

Which of the following statements is correct?

(A) Basket X has two <u>more</u> apples than Basket Y.

(B) Basket Y has <u>more</u> apples than Basket X.

(C) Both Baskets X and Y have <u>equal</u> apples.

(D) Basket Y has one apple <u>less</u> than Basket X.

7. Which figure is in the centre?

(A) 🌸   (B) 🏠   (C) 🍓   (D) ☕

8. Add me to 4 and subtract me from 12. The answer same. Who am I?

(A) 14   (B) 10

(C) 6   (D) 4

4   12

9. Look at the picture given below.

Which of the following number sentences represents above picture?

(A) 2 + 2 + 2   (B) 2 + 2 + 4 + 4   (C) 2 + 2   (D) 2 + 2 + 2 + 2

10.

What is the total value of above coins?

(A) ₹ 5   (B) ₹ 2   (C) ₹ 10   (D) ₹ 20

11. Which of the following objects can hold maximum amount of water?

(A) (B) (C) (D)

12. Sonali bought the following items.

ERASER ₹2   ₹10   ₹5

How much money did she spend?

(A) ₹ 27 (B) ₹ 15 (C) ₹ 12 (D) ₹ 17

13. Which of these number sentences gives 42 as the answer?

(A) 99 − 42 (B) 98 − 56 (C) 84 − 40 (D) 82 − 30

14. Chintu has 24 balls. He gives 2 balls to his sister. How many balls does Chintu has now?

(A) 22 (B) 20 (C) 18 (D) 21

15. To get 8, Ria has to add 4 _____ times.

(A) 6 (B) 4 (C) 10 (D) 2

I E O International English Olympiad

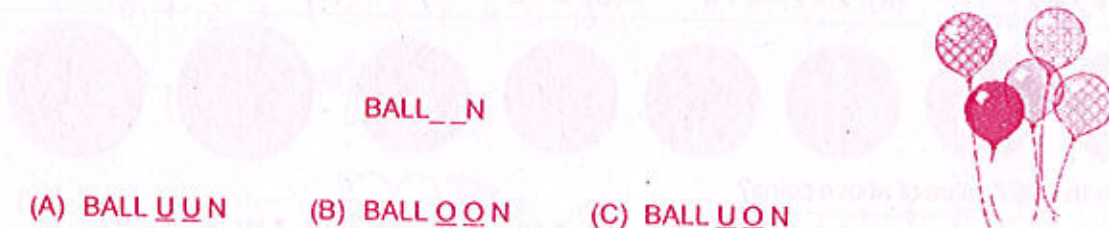## WORD AND STRUCTURE KNOWLEDGE

1. Find the odd word.

(A) Railway station (B) River (C) Train

2. Identify the picture.

(A) Bubble (B) Rainbow (C) Sun

3. Identify the object in the picture and fill in the blanks to form the correct spelling.

BALL__N

(A) BALL U U N (B) BALL O O N (C) BALL U O N

Direction (Q. No. 4 and 5) : Form a meaningful word.

4. PIca
   (A) Palc   (B) Clap   (C) Plac

5. Ssrga
   (A) Ragss   (B) Rgass   (C) Grass

6. Find the odd one out from the given sets of words.
   East, west, north, but, south
   (A) But   (B) North   (C) South

7. The young one of cat is
   (A) Pup   (B) Kitten   (C) Cub

8. 'Monika sleeps on sofa'. Identify the verb.
   (A) Monica   (B) Sleeps   (C) Sofa

9. The .... are going to the school.
   (A) Child   (B) Children   (C) Childrens

READING

Direction (Q. No. 10 to 13) : For the given picture, answer the following questions.

10. My name is Maria. I am a _____.
    (A) Maid   (B) Teacher   (C) Nurse

11. I am usually found in _____.
    (A) Hospitals   (B) Police stations   (C) Zoos

12. I take care of the _____.
    (A) Animals   (B) Patients   (C) Teachers

13. I give _____ to my patients.
    (A) Medicines   (B) Food   (C) Home work

SPOKEN AND WRITTEN EXPRESSION

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

14. Tom: Jerry! Don't make a noise.
    Jerry: ....
    (A) I am not a teacher, Tom.   (B) Thank You, Tom.
    (C) Sorry, Tom.

15. Ali 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.

MARK YOUR ANSWERS WITH HB PENCIL/BALL POINT PEN (BLUE/BLACK)

National Science Olympiad

1. Ⓐ Ⓑ Ⓒ Ⓓ   2. Ⓐ Ⓑ Ⓒ Ⓓ   3. Ⓐ Ⓑ Ⓒ Ⓓ   4. Ⓐ Ⓑ Ⓒ Ⓓ   5. Ⓐ Ⓑ Ⓒ Ⓓ
6. Ⓐ Ⓑ Ⓒ Ⓓ   7. Ⓐ Ⓑ Ⓒ Ⓓ   8. Ⓐ Ⓑ Ⓒ Ⓓ   9. Ⓐ Ⓑ Ⓒ Ⓓ   10. Ⓐ Ⓑ Ⓒ Ⓓ
11. Ⓐ Ⓑ Ⓒ Ⓓ   12. Ⓐ Ⓑ Ⓒ Ⓓ   13. Ⓐ Ⓑ Ⓒ Ⓓ   14. Ⓐ Ⓑ Ⓒ Ⓓ   15. Ⓐ Ⓑ Ⓒ Ⓓ

International Mathematics Olympiad

1. Ⓐ Ⓑ Ⓒ Ⓓ   2. Ⓐ Ⓑ Ⓒ Ⓓ   3. Ⓐ Ⓑ Ⓒ Ⓓ   4. Ⓐ Ⓑ Ⓒ Ⓓ   5. Ⓐ Ⓑ Ⓒ Ⓓ
6. Ⓐ Ⓑ Ⓒ Ⓓ   7. Ⓐ Ⓑ Ⓒ Ⓓ   8. Ⓐ Ⓑ Ⓒ Ⓓ   9. Ⓐ Ⓑ Ⓒ Ⓓ   10. Ⓐ Ⓑ Ⓒ Ⓓ
11. Ⓐ Ⓑ Ⓒ Ⓓ   12. Ⓐ Ⓑ Ⓒ Ⓓ   13. Ⓐ Ⓑ Ⓒ Ⓓ   14. Ⓐ Ⓑ Ⓒ Ⓓ   15. Ⓐ Ⓑ Ⓒ Ⓓ

International English Olympiad

1. Ⓐ Ⓑ Ⓒ   2. Ⓐ Ⓑ Ⓒ   3. Ⓐ Ⓑ Ⓒ   4. Ⓐ Ⓑ Ⓒ   5. Ⓐ Ⓑ Ⓒ
6. Ⓐ Ⓑ Ⓒ   7. Ⓐ Ⓑ Ⓒ   8. Ⓐ Ⓑ Ⓒ   9. Ⓐ Ⓑ Ⓒ   10. Ⓐ Ⓑ Ⓒ
11. Ⓐ Ⓑ Ⓒ   12. Ⓐ Ⓑ Ⓒ   13. Ⓐ Ⓑ Ⓒ   14. Ⓐ Ⓑ Ⓒ   15. Ⓐ Ⓑ Ⓒ

ANSWERS

National Science Olympiad

1.	(C)	2.	(B)	3.	(B)
4.	(A)	5.	(A)	6.	(B)
7.	(B)	8.	(D)	9.	(B)
10.	(C)	11.	(B)	12.	(C)
13.	(B)	14.	(A)	15.	(C)

International Mathematics Olympiad

1.	(B)	2.	(C)	3.	(A)
4.	(B)	5.	(C)	6.	(C)
7.	(B)	8.	(D)	9.	(D)
10.	(A)	11.	(A)	12.	(D)
13.	(B)	14.	(A)	15.	(D)

International English Olympiad

1.	(B)	2.	(B)	3.	(B)
4.	(B)	5.	(C)	6.	(A)
7.	(B)	8.	(B)	9.	(B)
10.	(C)	11.	(A)	12.	(B)
13.	(A)	14.	(C)	15.	(C)