NCO

SOF NATIONAL CYBER OLYMPIAD

Total Questions : 35

Time : 1 hr.

PATTERN & MARKING SCHEME			
Section	(1) Logical Reasoning	(2) Computers & IT	(3) Achievers Section
No. of Questions	5	25	5
Marks per Ques.	1	1	2

SYLLABUS

Section – 1 : Patterns, Measuring Units, Odd One Out, Series Completion, Geometrical Shapes, Analogy, Ranking Test, Grouping of Figures, Coding-Decoding, Embedded Figures.

Section – 2 : Introduction to Computers, General Information about Computers, Parts of Computer, Uses of Computer, Learning to use Keyboard and Mouse, Introduction to MS-Paint, Latest Developments in the field of IT.

Section – 3 : Higher Order Thinking Questions - Syllabus as per Section – 2.

Questions are based on Windows 7 and MS-Office 2010.

LOGICAL REASONING

1. Neha spins the spinner having three different colours. Which of the following has equal chances to appear ?
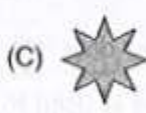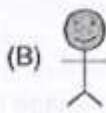
   (A) Red, Green
   (B) Green, Blue
   (C) Blue, Red
   (D) All have equal chances.

2. Find the odd one out.

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

3. There are _____ girls between Beena and Garima.

   (A) 2
   (B) 3
   (C) 4
   (D) 5

   Beena   Megha   Priya   Latika   Garima

COMPUTERS AND INFORMATION TECHNOLOGY

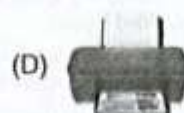4. Switching on the CPU by pressing the power button is called _____ the computer.
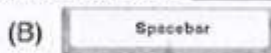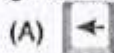   (A) Turning off
   (B) Restarting
   (C) Resuming
   (D) Booting

5. Which of the following parts runs our computer even during power failure?

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

6. 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 _____.

   (A) [←]   (B) [Spacebar]   (C) [Enter ←]   (D) [⇧ Shift]

7. 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

8. 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

9. Using a computer, we can _____.
   (A) Forecast weather (B) Eat food   (C) Cook food   (D) Swim in a pool

10. Click the _____ mouse button twice quickly to _____ the icon, program or document.
    (A) Right, copy   (B) Left, open   (C) Left, select   (D) Right, select

11. There are _____ shift keys on a standard keyboard.
    (A) One   (B) Two   (C) Three   (D) Four

12. MS-Paint can be used to _____.
    (A) Paint
    (C) Edit scanned photographs
    (B) Open images
    (D) All of these

13. A light-weight & compact machine, capable of doing everything which a desktop computer can do, is _____.

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

ACHIEVERS SECTION

14. The name of some devices are given in jumbled form. Which of the following statements is CORRECT about all three of them?
    (i) ISJTOCYK   (ii) YEBKAODR   (iii) OMUES
    (A) (i) is used to enter data into computer while (ii) and (iii) are used to get data from the computer.
    (B) Both (i) and (ii) are used to enter data into computer while (iii) is used to get data from the computer.
    (C) Both (i) and (iii) are used to enter data into the computer while (ii) is used to get data from the computer.
    (D) All three of them are used to enter data into the computer.

15. Which of the following type of brushes is used to draw the given image in MS-Paint of Windows 7?

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

| | PATTERN & MARKING SCHEME | | |
Section	(1) Logical Reasoning	(2) Science	(3) Achievers Section
No. of Questions	5	25	5
Marks per Ques.	1	1	2

Total Questions : 35   Time : 1 hr.

SOF NATIONAL SCIENCE OLYMPIAD

SYLLABUS

Section – 1 : Patterns, Measuring Units, Odd One Out, Series Completion, Geometrical Shapes, Analogy, Ranking Test, Grouping of Figures, Coding-Decoding, Embedded Figures.

Section – 2 : Plants, Animals, Human Body, Food, Housing and Clothing, Family and Festivals, Occupations, Good Habits and Safety Rules, Transport and Communication, Air, Water and Rocks, Earth and Universe.

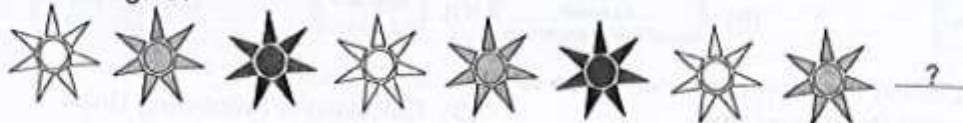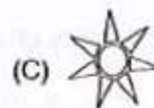Section – 3 : Higher Order Thinking Questions - Syllabus as per Section – 2.

LOGICAL REASONING

1. Which is the next figure?

(A)   (B)   (C)   (D) None of these

7. Riya is taller than Sarika, Sarika is taller than Preeti. Who is the smallest among them?
   (A) Riya
   (B) Sarika
   (C) Preeti
   (D) Can't be determined

3. How many squares are there in the figure?
   (A) 9
   (B) 12
   (C) 13
   (D) 14

SCIENCE

4. The given figure shows a black box containing an object. Kunal put his hand into the box and made the following comments.
   It is cold.
   It is rough.
   It is hard.
   Which sense organ did Kunal use to make these descriptions?
   (A) Ear
   (B) Skin
   (C) Tongue
   (D) Nose

5. My father's nephew or niece is my
   (A) Cousin
   (B) Uncle
   (C) Aunt
   (D) Brother-in-law.

6. The person in the given figure is a/an
   (A) Doctor
   (B) Soldier
   (C) Diver
   (D) Astronaut

7. Which part of the given plant produces seeds?
   (A) P
   (B) S
   (C) Q
   (D) R

8. Which of the following modes of transport does not have an engine and is not pulled by animals?
   (A) Cycle
   (B) Tonga
   (C) Jeep
   (D) Car

9. To which place of worship do Sikhs go to pray?
   (A) Temple
   (B) Mosque
   (C) Church
   (D) Gurudwara

10. Which of the following yields fibre ?
   (A) Barley
   (B) Tea
   (C) Cotton
   (D) Mustard

11. If you face the rising Sun in the morning, the direction on your left is
   (A) North
   (B) South
   (C) East
   (D) West

12. Which of the following is NOT the property of air?
    (A) Air fills space.
    (B) Air gives shape to things.
    (C) Air has weight.
    (D) None of these.

13. Which of the following is the correct order of planets from the nearest to Sun to the farthest?
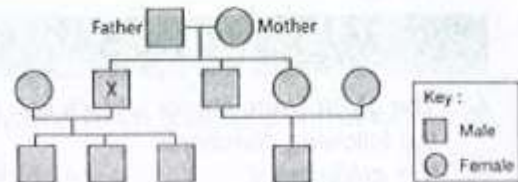   (A) Mars, Earth, Venus, Mercury
    (B) Mercury, Venus, Earth, Mars
    (C) Mercury, Mars, Earth, Venus
    (D) Venus, Mars, Earth, Mercury

ACHIEVERS SECTION

14. Study the given family tree carefully. How many nephews does 'X' have?
    (A) Three
    (B) Four
    (C) One
    (D) None

15. Study the given flowchart carefully. In which group (P, Q, R and S) fruit of kiwi can be placed?
    (A) P
    (B) Q
    (C) R
    (D) S

LOGICAL REASONING

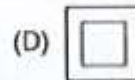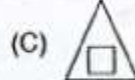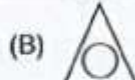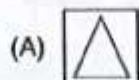1. The number of triangles in the given figure is _____.
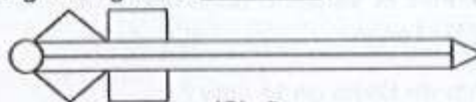
   (A) 3   (B) 4   (C) 5   (D) 0

2. What will come next in the sequence?

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

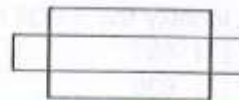3. When arranged in order from the smallest to the biggest, which number will be at last position in the sequence?

   21, 12, 79, 63, 36, 47

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

4. How many sleeping lines are there in the given figure?
   (A) 2
   (B) 5
   (C) 4
   (D) 6

MATHEMATICAL REASONING

5. The largest two digit number is _____.
   (A) | 0 | 1 |
   (B) | 1 | 0 | 0 |
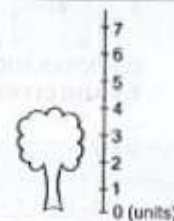   (C) | 9 | 0 |
   (D) | 9 | 9 |

6. The height of the tree is _____.
   (A) 6 units
   (B) 4 units
   (C) 5 units
   (D) 7 units

7. 5 Hundreds, 1 ones and 5 tens will make _____.
   (A) 551
   (B) 510
   (C) 155
   (D) 515

8. 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

9. What is the total cost of the food items displayed?
   (A) ₹ 74
   (B) ₹ 84
   (C) ₹ 64
   (D) ₹ 70
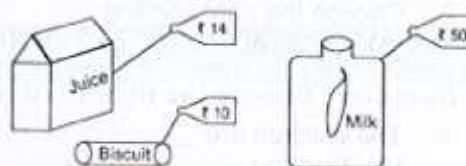
EVERYDAY MATHEMATICS

10. 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

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
    (B) 6
    (C) 5
    (D) 3

13. There are 15 cats, 18 dogs and 13 rats. How many animals are there altogether?
    (A) 45
    (B) 46
    (C) 64
    (D) 38

ACHIEVERS SECTION

14. Saurabh travelled from his Home to the Library. He took two routes.
    1st route : Home → Hospital → Mall → Library
    2nd route : Home → Park → School → Library
    Which route is the longest and by how much distance?
    (A) 1st route, 12 km
    (B) 1st route, 43 km
    (C) 2nd route, 12 km
    (D) 2nd route, 31 km

15. Identify the 3-digit number.
    (A) 652
    (B) 630
    (C) 952
    (D) 645

> - The digit on the ten's place of a 3-digit number is 3 more than the digit in its one's place.
> - The digit in its hundred's place is double the digit in ten's place.
> - The digit in its one's place is (2 tens – 20 ones).
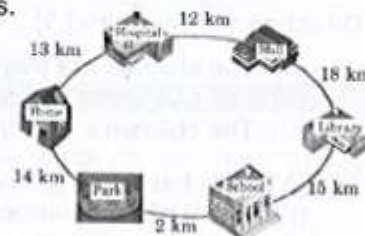
I E O

SOF INTERNATIONAL
ENGLISH OLYMPIAD

Total Questions : 35   Time : 1 hr.

	PATTERN & MARKING SCHEME			
Section	(1) Word and Structure Knowledge	(2) Reading	(3) Spoken and Written Expression	(4) Achievers Section
No. of Questions		30		5
Marks per Ques.	1	1	1	2

SYLLABUS

Section – 1 : Collocations, Spellings, Words related to animals and their sounds, Clothes, Body parts, Basic emotions, Food, etc. Nouns, Pronouns, Verbs, Adverbs, Adjectives, Articles, Prepositions, Conjunctions, Contractions, Word order, Punctuation, Simple tenses.

Section – 2 : 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 – 3 : Ability to understand situation-based variations in functions like thanking, greeting, asking for permission, introducing (oneself), etc.

Section – 4 : Higher Order Thinking Questions - Syllabus as per Sections 1, 2 and 3.

WORD AND STRUCTURE KNOWLEDGE

1. Find the odd word.
   (A) Airport   (B) Lake   (C) Airplane

2. Choose the right spelling.
   (A) Elephant   (B) Elaphent   (C) Elefant

Direction : Choose the right word for the given picture.

3. The children are _____.
   (A) Dancing
   (B) Singing
   (C) Playing

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

4. The earth is _____ like a ball.
   (A) Round   (B) Square   (C) Triangle

5. I am brown and furry. I am a _____.
   (A) Duck   (B) Bear   (C) Penguin

Direction (Q. No. 6 and 7) : Fill in the blanks.

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

7. Rita is my friend. _____ is very jolly.
   (A) It   (B) They   (C) She

READING

Direction (Q. No. 8 and 9) : Choose the right sentences.

8. (A) The children are playing with a ball.
   (B) The children are flying kites.
   (C) The children are playing with balloons.

9. (A) Ravi has two balloons.
   (B) Rakhi has one balloon.
   (C) Salim has one balloon.

Direction (Q. No. 10 and 11) : Read the poetry and answer the following questions.

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!

10. What is mom making in the kitchen?
    (A) A pudding   (B) Sugar   (C) A Birthday cake

11. What kind of a surprise is it?
    (A) Shocking   (B) Sweet   (C) Good

SPOKEN AND WRITTEN EXPRESSION

Direction (Q. No. 12 and 13) : Choose the right answer.

12. Tom : Jerry! Please have some cheese.
    Jerry : _____.
    (A) I am not a teacher, Tom.   (B) Thank you, Tom.
    (C) The train is late, Tom.

13. Sita was studying in study room.
    _____
    (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.

ACHIEVERS SECTION

Direction : Choose the correct word.

14. Can you lend me _____ money?
    (A) Some   (B) Few   (C) Little

Direction : Choose the best reply.

15. Your new toy is wonderful _____ I'm sad it's already broken.
    (A) Also   (B) And   (C) But

SPACE FOR ROUGH WORK

ANSWERS

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