NATIONAL CYBER OLYMPIAD

SAMPLE PAPER 2014-15

CLASS

5

The actual test paper has 50 questions. Time allowed: 60 minutes. There are 4 sections: 10 questions in section I, 10 in section II, 25 in section III and 5 in section IV.

SYLLABUS

Section — I (Mental Ability): Regional and Roman Numerals, Numbers up to one Lakh, Multiples and Factors, Fractions and Decimals, Addition, Subtraction, Multiplication, Division, Estimation, Geometrical Shapes, Measurement, Time, Money, Perimeter, Area, Angles, Pictorial Representation of Data, Prime and Composite Numbers, HCF and LCM.

Section – II (Logical and Analytical Reasoning): Problems Based on Figures, Odd One Out, Series Completion, Coding-Decoding, Mathematical Reasoning, Analytical Reasoning, Mirror Images, Embedded Figures.

Section — III (Computers and IT): Input and Output Devices, Hardware, Software, Storage Devices, Memory — Primary & Secondary Memory, MS-Paint, MS-Word, Introduction to MS-PowerPoint, Introduction to Multimedia, Internet, Computer Networks, Using Windows, Latest Developments in the field of IT.

Section —IV (Achievers Section): Syllabus as per Section — III. Questions are based on Windows 7 and MS-Office 2010.

The actual test paper has 50 questions. Time allowed: 60 minutes. There are 3 sections: 15 questions in section I, 30 in section II and 5 in section III.

SYLLABUS

Section – I (Mental Ability): Number Sense, Regional and Roman Numerals, Numbers up to Lakhs, Multiples and Factors, Fractional Numbers, Addition, Subtraction, Multiplication, Division, Decimals, Geometrical Shapes and Angles, Symmetry, Measurement of Length, Time, Money, Weight, Perimeter and Area of Square, Rectangle and Circle, Pictorial Representation of Data, HCF and LCM, Problems Based on Figures, Odd One Out, Series Completion, Coding-Decoding, Mathematical Reasoning, Mirror Images, Embedded Figures, Direction Sense, Patterns, Number Ranking, Alphabetical Test.

Section — II (Science): Animals, Plants and Food, Human Body and Health, Water, Matter, Natural Resources and Calamities, Earth and Universe, General Science.

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

The actual test paper has 50 questions. Time allowed: 60 minutes. There are 4 sections: 20 questions in section I, 15 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

Number sense, Numeral and Number Name (7 and 8 digit numbers), Roman Numbers, Addition, Subtraction, Multiplication, Division, Factors and Multiples, LCM, HCF, Rules of Divisibility, Whole, Prime and Composite Numbers, Fractions, Decimals, Geometrical Shapes & Angles, Circles, Symmetry, Measurement of Length, Mass, Capacity, Perimeter and Area of Rectangle, Square, Measurement of Volume, Temperature, Time and Various Operations on Time, Relationship Between Seconds, Minutes and Hours, Money, Representation of Data in Pictorial Form, Patterns, Formation of Numbers and Figures, Direction Sense, Number Ranking and Alphabetical Test, Series, Odd One Out.



NATIONAL SCIENCE OLYMPIAD

1

The actual test paper consists of 50 questions. Time allowed : 60 minutes. There are 4 sections.

INTERNATIONAL ENGLISH OLYMPIAD

IN ASSOCIATION WITH



SYLLABUS

Section-I (Word and Structure Knowledge): Prepositions, Tenses, Irregular verbs, Pronouns, Modals quantifiers, etc., Spellings, Collocations, Phrasal verbs, Idioms, Homonyms and homophones, Words related to feelings, Travel, Food, Health, appearance, Character, etc.

Section-II (Reading): Search for and retrieve information from various text types like news headlines, Messages, Letters, etc., Understand information given in News reports, Time tables, Messages, etc., Acquire broad understanding of and look for specific information in short texts like messages, menu card dialogues, etc.

Section-III (Spoken and Written Expression): Ability to understand situation-based variations in functions like requests, Refusals apologies, etc. and the use of conjunctions.

Section — IV (Achievers Section): Syllabus as per Sections I, II and III.

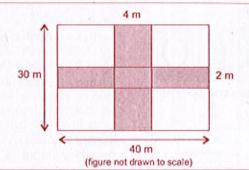


National Cyber Olympiad

MENTAL ABILITY

- 1. Which of the following are supplementary angles?
 - (A) 180°, 180°
- (B) 100°, 80°
- (C) 50°, 50°
- (D) 40°, 50°
- 2. The cost of a table is ₹ 858.90. Find the cost of 18 tables.
 - (A) ₹ 15460.2
- (B) ₹ 18245.8
- (C) ₹2181.8
- (D) ₹ 14519.80

- 3. The area of the shaded region is _____
 - (A) 264 m²
 - (B) 192 m²
 - (C) 190 m²
 - (D) 36 m².



- 4. Which of the figures shows correct fraction for $\frac{1}{3}$?
 - (A) ××××××
- (B) + + + + (+)
- (C) 00000
- (D) 0000000

LOGICAL AND ANALYTICAL REASONING

- 5. $5\frac{3}{4} = 5 + (\Box + \Box + \Box)$. Here, \Box stands for _____
 - (A) $\frac{3}{4}$
- (B) $\frac{1}{4}$
- (C) 3
- (D) 4

6. How many times exactly two X's occurs together?

XYXXYXYYXXXYYXXYXXX

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

- 7. Library is to book as book is to
 - (A) Page
- (B) Copy
- (C) Binding
- (D) Cover
- 8. If the day before yesterday is two days after Monday then what day is it today?
 - (A) Monday
- (B) Tuesday
- (C) Wednesday
- (D) Saturday

COMPUTERS AND INFORMATION TECHNOLOGY

- Multimedia is used for many purposes like
 - (A) Education
- (B) Advertising
- (C) Playing games
- (D) All of these

- 10. Find the odd term out.
 - (A) Scanner
- (B) Pointing device
- (C) OMR
- (D) Printer
- 11. In MS Powerpoint, which of the following is NOT a slide layout?
 - (A) Title slide

(B) Office theme

(C) Title and content

- (D) Two content
- Computer cannot perform anything on its own. It can process only when it is instructed to do so. These sets of instructions that are fed in by the user are termed as
 - (A) Hardware

(B) Software

(C) Flowcharts

- (D) Programs
- 13. In MS Word, which tab would you select to insert a shape in a document?
 - (A) Insert

(B) Review

(C) View

(D) File

14.	The small picture repre (A) Icon	esenting a program is a (B) File	(C) Folder	(D) Drive
15.	While working in MS-F	Paint, the option which i	is used to show the drav	ving in a small reference windov
	(A) Show grid	(B) Zoom in	(C) View bitmap	(D) Show thumbnail
	N S Q	Nationa	1 Science	Olympiad
M			AL ABILITY	
1.	A circle is drawn, with The line segment from centre of the circle, is (A) Arc (C) Radius	point A to point B, thro	(B) Circumference (D) Diameter	A O E
2.	Which could be the m (A) 80°, 50°, 90°	easures of the angles o (B) 36°, 90°, 54°	of a right triangle? (C) 44°, 90°, 40°	(D) 110°, 90°, 20°
3.	A race started at 11:16 it take the first person (A) 13 hours 38 minu (C) 1 hours 6 minutes	ame in at 1:22 p.m. How long die es es		
4.	An arrow makes an ar Which is the best nam (A) Obtuse (C) Straight		nd, as shown in the pictors (B) Right (D) Acute	ure. * ?
5.	If A = 5, which number (A) A × 4 = 20	r sentence is true? (B) A-3=8	(C) 12 + A = 7	(D) 15 ÷ A = 10
		S	CIENCE	
6.	Where will you put ter	mites in the following ta	able?	
		Two pairs of legs	Three pairs of legs	
	With wings Without wings	P R	Q S·	
	(A) P	(B) Q	(C) R	(D) S
7.	the Mills of the Control of the Cont	80 80 00 SECTION (are supposed to suffer fro	to the second se
8.	Which of the following (i) Talking in different (iii) Love for knitting (A) (iv) only	traits is/are inherited? It languages (iv) Colour of eyes (B) (i) & (iv)	(ii) Love for reading (v) Love for music (C) (i), (iv) & (v)	(D) (iv) & (v)
9.	A small baby plant co	ming out of a seed is (B) R∞t	(C) Dispersal	(D) Seedling
10.	Which of these is nee (A) A balance	ded to measure the ma (B) A barometer	ss of a rock? (C) A metric ruler	(D) Thermometer

11.	Which of these ca (A) Wood	n most easily attract mag (B) Notebook	gnets ? (C) Iron nails	(D) Eraser
12.	The substance that (A) Water	at makes plants green is l (B) Chlorophyll	known as – (C) Carbon dioxide	(D) Calcium
13.		arting of forest fires	or endangering the greates (B) Cutting wildflowe (D) Hunting for food	
14.	Look at the figure		Where will be the Earth in i	t?
		a	6	
	(A) a	(B) b	(C) c	(D) d
15.	If there is no rain, (A) Flood	crops fail to grow. This o	condition will lead to (C) Famine	(D) Both (B) & (C).
1.	number of coins.	ins in a jar. He sorted th How many coins were in e	e coins into 25 different s each stack?	atics Olympiad
	(A) 20	(B) 45	(C) 25	(D) 12
2.		dents enrolled in Element ts are enrolled at Middle \$ (B) 762		has 276 fewer students enrolled (D) 638
3.	Which of the follow	wing shows a reflection (f	lip) of the shaded shape ac	cross the dotted line?
	(A) []	(B)	(c) []	(D) []
4.	Which of the follow	wing has exactly 6 vertice	s?	
	(A)	(B)	(c) .	(D)
5.	Which figure is qu	padrilateral? S	$\bigvee_{\mathbf{w}} \bigvee_{\mathbf{x}}$	
	(A) Figure T	(B) Figure S	(C) Figure X	(D) Figure W
6.	Which figure has	an area of 8 sq. units and	a perimeter of 12 units? (E.	ach square block is of side 1 unit)
	(A)	and katalog and palego. Adapted pales of	(B)	
	(C)	Love Iceanipee griden with real griden control on the control	(D)	was group ideas to the control of th
7.	Tom left home at time Tom was awa	The property of the property o	He returned home at 4:45	p.m. What is the total amount of
	(A) 7 hours 30 m	inutes (B)	9 hours 30 minutes	
	(C) 3 hours 30 m	inutes (D)	8 hours 30 minutes	

8.			1, 45, 39, 33, 27, 21		
	(A) Divide by 7	the rule used to make the (B) Divide by 6		(D) Subtrac	t 6
9.	(A) Rita collect how many of (B) Bony collect many did Bony (C) David need far, how many (D) Anita filled	ed 7 more seashells tha did Rita collect ? sted 7 fewer seashells tha ony collect ? is 7 seashells more to co any will he have after he	g the open sentence S – 7 an Henry. If S is the number an Kamal. If S is the number of seast of S is the number of seast	er of seashells tha er of seashells Kan is the number of se	nal collected, ho
10.	Which figure wo	uld result when the syml	bol is flipped over the dotte	d line?	E
	Which operation (A) Addition	should be used in the b	o complete a bulletin board ox below to find how many 72 ? 19 = (C) Multiplication		rs they need?
12.	of two lengths: a one of three fabr	ic patterns: stripes, plaid ombinations could Shelle	g. She can choose one rt. Then she can choose I, or flowers. At most how ey order choosing a length	Short Long Skirts	tripes Plaid Flower
	(A) 2	(B) 3	(C) 5	(D) 6	don't dely an
13.	pieces that fit to	ancient Chinese puzzle. gether to make a square gles marked in the tangr		use angle?	C B D
14.	In which animal	e shows a spinner for an section is spinner least l	likely to land?	3	
	(A) (C)		(B) MM		C.







15. The following table shows the distance around four different planets.

Which planet's distance has the numeral 3 in the ten-thousands place?

- (A) Jupiter
- (B) Mars
- (C) Mercury
- (D) Neptune

DISTANCE AROUND

Planet	Distance Around (in miles)
Jupiter	88,732
Mars	4,213
Mercury	3,032
Neptune	30,603



(A) Should

(C) Can

International English Olympiad

WORD AND STRUCTURE KNOWLEDGE Complete each word using the letters from the box. I can't wait to ___wrap my birthday presents. (A) In (B) Im (C) Un (D) None of these Choose the odd one out. (A) Build (B) Separate (C) Construct (D) None of these 3. Complete the sentence with the correct spelling of the word. I like to read __to my brother. (A) Allowed (B) Aloud (C) Alaud (D) None of these Match the underlined phrase with its correct meaning in the box. Mother tried in vain to make her finish her milk. (A) Unable to do something (B) Using a pipe (C) With a lot of effort (D) None of these Find the odd one out. (A) Teacher: Student (B) Shopkeeper: Customer (C) Doctor: Librarian (D) None of these You have to go _____ this door to reach the library. (A) From (B) By (C) Through (D) None of these Direction (Q. No. 7 and 8): Spot the error in the sentence. 7. This doll / was my/ before I gave it to you. No error (B) (A) (D) If a student is not well, / he must to stay home / and rest till he feels better. No error (A) (B) (C) (D) 9. Given below are three sentences. One of them is incorrect. Find the incorrect sentence and mark it in your answer sheet. (A) The Amazon river is the largest river in the world. (B) Sangeeta is watching television. (C) I will start my course on June. (D) None of these. If he is planning to participate in the marathon, he _____ practice regularly.

(B) Shall

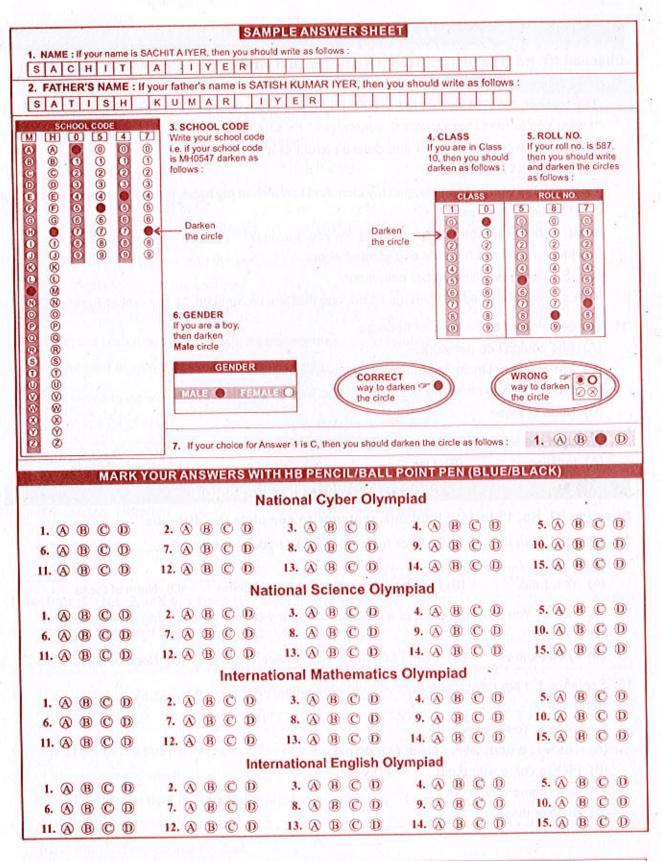
(D) None of these

	READING
11.	on (Q. No. 11 and 12): Read the passage and answer the following questions. ss Jabber Blabber e teacher, Mr. Rao walked to the blackboard and wrote up a list of words. He pointed to the list want you to read these words to yourselves," he said. "Then, without talking to your neighbou oose any word from the list and draw a picture of it in your notebook." y squealed very thrilled. tared at the words. Then I tapped my chin. And I scratched my head. Finally I reached out to Rahe d tapped on his head. sst, Rahul", I whispered, "which word are you drawing?" by jumped up from her seat and pointed at me. ir, Sir, Jenny is talking to her neighbour." nat's how Joy earned her famous name, one that she never liked, "J Joy Jabber Blabber"! by complained to the teacher because a) She couldn't do her work. b) They were not including her in their conversation. c) She wanted to show the teacher that she was an obedient student.
12.	(hich of the following words would Rahul and Jenny use to describe Joy? (b) Irritating (B) Liar (C) Friendly (D) None of these
	SPOKEN AND WRITTEN EXPRESSION
	tion (Q. No. 13 to 15): Find one sentence to complete the dialogue. Jother; When did you come back from the zoo? Did you like it there? Jinu: A) Yes, I did. (B) I will think about it. (C) I cannot come (D) None of these
14.	eacher 1 : You have got a list of students. How many of them are coming to the picnic?

Sentence 2.

Sentence 3. You are invited.

- (A) There is a party at my place at 6:00 pm.
- (B) Please come with a gift.
- (C) Don't come after 6:00!
- (D) None of these



ANSWERS

National Cyber Olympiad National Science Olympiad							Olumpind					International English Olympiad											
	(B) (A) (A) (D) (A)	5. 8. 11.	(B) (D) (B)	6. 9. 12.	(D) (D) (D)	4. 7. 10.	(A) (C) (A)	5. 8. 11.	(A) (C)	9. 12.	(B)	1. 4. 7. 10.	(B)	2. 5. 8.	(D) (C) (D)	3. 6. 9.	(B) (D)	1. 4. 7. 10. 13.			(B) (C) (B) (C) (A)	6. 9. 12.	(B) (C) (C) (A) (A)