

SAMPLE PAPER 2013-14

CLASS CLASS



The actual test paper has 50 questions. Time allowed: 60 minutes. There are 3 sections: 10 questions in section I, 10 in section II and 30 in section III.

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.

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



The actual test paper has 50 questions. Time allowed: 60 minutes. There are 2 sections: 15 questions in section I and 35 in section II.

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.



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

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.



IN ASSOCIATION WITH



The actual test paper consists of 50 questions. Time allowed : 60 minutes. There are 3 sections.

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.



National Cyber Olympiad

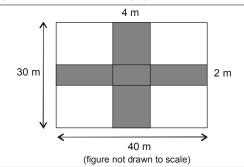
MENTAL ABILITY

- 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

The area of the shaded region is _



- (B) 192 m²
- (C) 190 m²
- (D) 36 m².



- Which of the figures shows correct fraction for $\frac{1}{3}$?
- (C) 000(00)
- (D) 0000600

LOGICAL AND ANALYTICAL REASONING

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

How many times exactly two X's occurs together?

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

- Library is to book as book is to
 - (A) Page
- (B) Copy
- (C) Binding
- (D) Cover
- 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
- 12. 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
- 2 Class 5

	The small picture rep (A) Icon	presenting a program is (B) File	a (C) Folder	(D) Drive
15.	· ·			awing in a small reference windov
	is (A) Show grid	(B) Zoom in	(C) View bitmap	(D) Show thumbnail
	SOF S S			Olympiad
1	A circle is drawn with		TAL ABILITY	C
1.	_	om point <i>A</i> to point <i>B</i> , thresholds and an	ough the (B) Circumference (D) Diameter	$A \longrightarrow B \to E$
2.	Which could be the (A) 80°, 50°, 90°	measures of the angles (B) 36°, 90°, 54°	of a right triangle ? (C) 44°, 90°, 40°	(D) 110°, 90°, 20°
3.		n to reach the finish line nutes		
4.	An arrow makes and Which is the best na (A) Obtuse (C) Straight	angle with the level groume for this angle?	ind, as shown in the pict (B) Right (D) Acute	ture. *
5.	If A = 5, which numb (A) A × 4 = 20	er sentence is true? (B) A-3=8	(C) 12 + A = 7	(D) 15 ÷ A = 10
		S	CIENCE	
6.	Where will you put to	ermites in the following to	,	7
	With wings	Two pairs of legs	Three pairs of legs	_
	With wings Without wings	R	Q S	
	(A) P	(B) Q	(C) R	(D) S
7.	If your diet is deficie (A) Rickets	nt in sour fruits then you (B) Beri Beri	are supposed to suffer (C) Scurvy	from (D) Night blindness.
8.		ng traits is/are inherited frent languages	? (ii) Love for readin	•
o .	-	g (iv) Colour of eyes (B) (i) & (iv)	(v) Love for music (C) (i), (iv) & (v)	(D) (iv) & (v)
9.	(iii) Love for knitting (A) (iv) only	• , ,	` '	

11.	Which of these can me (A) Wood	ost easily attract magne (B) Notebook	ts ? (C)Iron nails	(D) Eraser
12.	The substance that ma	akes plants green is kno (B) Chlorophyll	own as – (C) Carbon dioxide	(D) Calcium
13.	Today, which human ac (A) Accidental starting (C) Destruction of hab	g of forest fires	endangering the greatest (B) Cutting wildflower (D) Hunting for food a	
14.	Look at the figure. It sl	hows lunar eclipse. Whe	ere will be the Earth in it	?
		a-	d	
	(A) a	(B) b	(C) c	(D) d
15.	If there is no rain, crop (A) Flood	os fail to grow. This cond (B) Drought	dition will lead to (C) Famine	(D) Both (B) & (C).
	sof M Q	Internationa	l Mathemat	cics Olympiad
1.				acks. Each stack had the same
	(A) 20	many coins were in each	(C) 25	(D) 12
	(, ,) = 0	(B) 10	(-) -	(-)
2.	There are 914 students	s enrolled in Elementary	School. Middle School h	nas 276 fewer students enrolled.
2.	There are 914 students	,	School. Middle School h	· ·
2. 3.	There are 914 students How many students ar (A) 642	s enrolled in Elementary re enrolled at Middle Sch	School. Middle School hool? (C) 1,190	nas 276 fewer students enrolled. (D) 638
	There are 914 students How many students ar (A) 642	s enrolled in Elementary re enrolled at Middle Sch (B) 762	School. Middle School hool? (C) 1,190	nas 276 fewer students enrolled. (D) 638
	There are 914 students How many students ar (A) 642 Which of the following (A)	s enrolled in Elementary re enrolled at Middle Sch (B) 762 shows a reflection (flip)	School. Middle School hoool? (C) 1,190 of the shaded shape ac	nas 276 fewer students enrolled. (D) 638 cross the dotted line?
3.	There are 914 students How many students ar (A) 642 Which of the following (A)	s enrolled in Elementary re enrolled at Middle Sch (B) 762 shows a reflection (flip)	School. Middle School hoool? (C) 1,190 of the shaded shape ac	nas 276 fewer students enrolled. (D) 638 cross the dotted line?
3.	There are 914 students How many students ar (A) 642 Which of the following (A) Which of the following	s enrolled in Elementary re enrolled at Middle Sch (B) 762 g shows a reflection (flip) (B) has exactly 6 vertices?	School. Middle School hool? (C) 1,190 of the shaded shape act	nas 276 fewer students enrolled. (D) 638 cross the dotted line? (D)
3.	There are 914 students How many students ar (A) 642 Which of the following (A) Which of the following (A)	s enrolled in Elementary re enrolled at Middle Sch (B) 762 shows a reflection (flip) (B) has exactly 6 vertices? (B)	School. Middle School hool? (C) 1,190 of the shaded shape act	nas 276 fewer students enrolled. (D) 638 cross the dotted line? (D)
3.	There are 914 students How many students ar (A) 642 Which of the following (A) Which of the following (A) Which figure is quadri (A) Figure T	s enrolled in Elementary re enrolled at Middle Sch (B) 762 shows a reflection (flip) (B) has exactly 6 vertices? (B) lateral?	School. Middle School hool? (C) 1,190 of the shaded shape act (C) (C) (C) (C) (C) (C) (C) (C)	nas 276 fewer students enrolled. (D) 638 cross the dotted line? (D) (D)
3. 4. 5.	There are 914 students How many students ar (A) 642 Which of the following (A) Which of the following (A) Which figure is quadri (A) Figure T	s enrolled in Elementary re enrolled at Middle Sch (B) 762 shows a reflection (flip) (B) has exactly 6 vertices? (B) lateral?	School. Middle School hool? (C) 1,190 of the shaded shape act (C) (C) (C) (C) (C) (C) (C) (C)	nas 276 fewer students enrolled. (D) 638 cross the dotted line? (D)
3. 4. 5.	There are 914 students ar (A) 642 Which of the following (A) Which of the following (A) Which figure is quadri (A) Figure T Which figure has an ar	s enrolled in Elementary re enrolled at Middle Sch (B) 762 shows a reflection (flip) (B) has exactly 6 vertices? (B) lateral?	School. Middle School hool? (C) 1,190 of the shaded shape act (C) (C) (C) (C) (C) (C) (C) (C)	nas 276 fewer students enrolled. (D) 638 cross the dotted line? (D)

8. A rule was used to make the pattern shown below.

51, 45, 39, 33, 27, 21 . . .

Which could be the rule used to make the pattern?

- (A) Divide by 7
- (B) Divide by 6
- (C) Subtract 7
- (D) Subtract 6
- **9.** Which of these could be solved by using the open sentence S-7=?
 - (A) Rita collected 7 more seashells than Henry. If S is the number of seashells that Henry collected, how many did Rita collect?
 - (B) Bony collected 7 fewer seashells than Kamal. If *S* is the number of seashells Kamal collected, how many did Bony collect ?
 - (C) David needs 7 seashells more to complete his collection. If *S* is the number of seashells he has so far, how many will he have after he gets 7 more?
 - (D) Anita filled 7 boxes with seashells. If *S* is the number of seashells she put in each box, how many seashells did she use in all?
- 10. Which figure would result when the symbol is flipped over the dotted line?

(A)

(B)

(C) **E**

(D) **Ш**

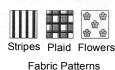


11. Simon and Julie need 72 paper flowers to complete a bulletin board. They have 19 paper flowers so far. Which operation should be used in the box below to find how many more paper flowers they need?

72 ? 19 =

- (A) Addition
- (B) Division
- (C) Multiplication
- (D) Subtraction
- **12.** Shelley is ordering a skirt from a catalog. She can choose one of two lengths: a short skirt or a long skirt. Then she can choose one of three fabric patterns: stripes, plaid, or flowers. At most how many different combinations could Shelley order choosing a length and a fabric pattern?





Oi

(D) 6

1 abrie i c

13. A tangram is an ancient Chinese puzzle. It is made of seven pieces that fit together to make a square.

(B) 3

Which of the angles marked in the tangram puzzle given is an obtuse angle?

(A) Angle A

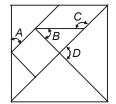
(A) 2

(B) Angle B

(C) 5

(C) Angle C

(D) Angle D



14. The given picture shows a spinner for an animal board game. In which animal section is spinner least likely to land?









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				



E Q International English Olympiad

WORD AND STRUCTURE KNOWLEDGE

1.	Complete each word using the letters from the box. I can't wait towrap my birthday presents.											
	(A) In	(B) Im	(C) Un	(D) None of these								
2.	Choose the odd o	one out. (B) Separate	(C) Construct	(D) None of these								
3.	I like to read		-									
	(A) Allowed	(B) Aloud	(C) Alaud	(D) None of these								
4.		ned phrase with its correc ain to make her finish her i	-									
	(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: Stu	ident	(B) Shopkeeper : Customer									
	(C) Doctor : Libra	arian	(D) None of these									
6.	You have to go this door to reach the library.											
	(A) From	(B) By	(C) Through (D) None of these									
Dire	ection (Q. No. 7 a	and 8) : Spot the error in	the sentence.									
7.	This doll / was my	y/ <u>before I gave it to you</u> .	1	No error								
	(A) (B)	(C)		(D)								
8.	If a student is not	well, / he must to stay ho	ome / and rest till he f	eels better. No error								
	(A)	(B)	(C)	(D)								
9.	Given below are t		nem is incorrect. Find t	he incorrect sentence and mark								
	(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.											
10.	If he is planning t	o participate in the marat	hon, he pra	ctice regularly.								
	(A) Should		(B) Shall									
	(C) Can		(D) None of these									

READING

Direction (Q. No. 11 and 12): Read the passage and answer the following question	Direction	n (Q. No.	11 and 12): Read the	passage and answer the	e following guestions
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Miss Jabber Blabber

The teacher, Mr. Rao walked to the blackboard and wrote up a list of words. He pointed to the list.

"I want you to read these words to yourselves," he said. "Then, without talking to your neighbour, choose any word from the list and draw a picture of it in your notebook."

Joy squealed very thrilled.

I stared at the words. Then I tapped my chin. And I scratched my head. Finally I reached out to Rahul and tapped on his head.

"Psst, Rahul", I whispered, "which word are you drawing?"

Joy jumped up from her seat and pointed at me.

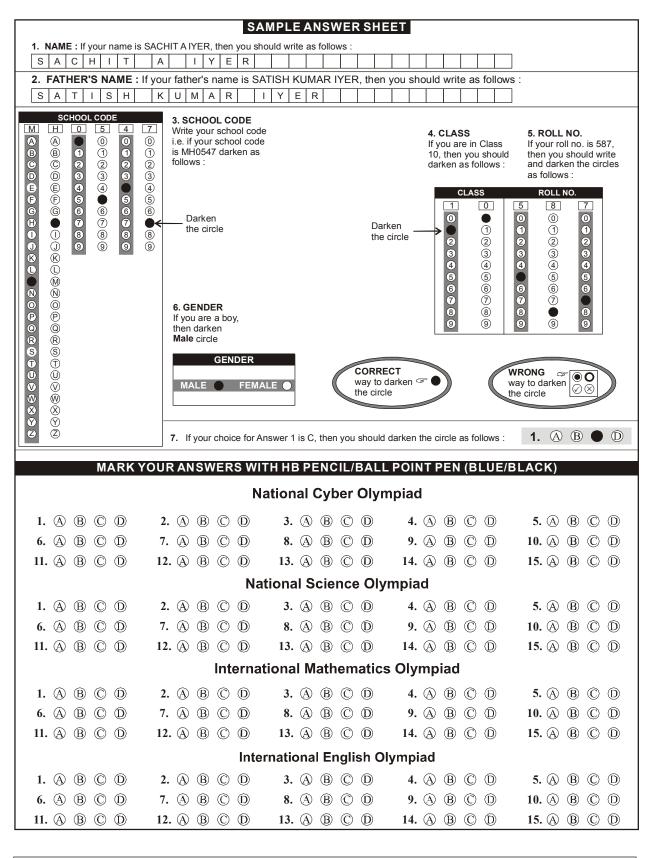
"Sir, Sir, Jenny is talking to her neighbour."

That's how Joy earned her famous name, one that she never liked, "J Joy Jabber Blabber"!

- 11. Joy 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.
 - (D) None of these
- **12.** Which of the following words would Rahul and Jenny use to describe Joy?
 - (A) Irritating
- (B) Liar
- (C) Friendly
- (D) None of these

SPOKEN AND WRITTEN EXPRESSION

Dire	Direction (Q. No. 13 to 15): Find one sentence to complete the dialogue.											
13.	. Mother: When did you come back from the zoo? Did you like it there?											
	Minu:											
(A) Yes, I did. (B) I will think about it. (C) I cannot come (D) None of the												
14.	Teacher 1 : You have	got a list of students. I	How many of them are	coming to the picnic?								
	Teacher 2 :											
	(A) I don't know. (B) I can't see them. (C) I haven't got any. (D) None of these											
15.	Sentence 1. I am cele	brating my doll's birtho	lay tomorrow.									
	Sentence 2											
	Sentence 3. You are in	nvited.										
	(A) There is a party a	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

	lationa	l Cyl	er O	lymp	iad	Nat	ional	Scie	nce	Olym	piad	Int	ernat	ional	Math	ema	tics		Inter	natio	nal E	nglis	h
1. 4. 7.	(B) (A) (A)	2. 5. 8. 11.	(A) (B) (D) (B)	3. 6. 9. 12.	(B) (D) (D)	1. 4. 7. 10.	(D) (A) (C) (A)	2. 5. 8. 11.	(B) (A) (A) (C)	3. 6. 9. 12.	(B) (B) (D) (B)	1. 4. 7.	(A) (A) (B)		(D) (C) (D)	3. 6. 9.	(C) (B) (B)	1. 4. 7.	(C) (C) (B)	Oly 2. 5. 8.	mpiac (B) (C) (B)	3. 6. 9.	(B) (C) (C)
13	3. (A)	14.	(A)	15.	(D)	13.	(C)	14.	(B)	15.	(D)	10. 13.	(A) (C)	11. 14.	(D) (A)	12. 15.	` '	10. 13.	` '	11. 14.	(C) (A)	12. 15.	(A) (A)