

## **Sample Paper**

**SYLLABUS 2015-16** 

**CLASS** 

5



Total Questions: 50 Time: 1 hr.

PATTERN & MARKING SCHEME										
Section	(1) Logical Reasoning	(2) Computers & IT	(3) Achievers Section							
No. of Questions	10	35	5							
Marks per Ques.	1	1	3							

#### **SYLLABUS**

Section – 1: Patterns, Analogy and Classification, Coding-Decoding, Geometrical Shapes, Mirror Images, Water Images, Embedded Figures, Direction Sense Test, Ranking Test, Alphabet Test and Logical Sequence of Words, Puzzle Test.

Section – 2: Input and Output Devices, Hardware, Software, Storage Devices, Memory – Primary & Secondary Memory, MS-Paint, Introduction to Multimedia, MS-Word (Paragraph formatting Using Paragraph group, Drop Cap, Document views, Inserting Graphics-Pictures and Shapes, Clip Arts, Symbols, SmartArt, Multimedia Objects, Text Box, Inserting Header and Footer in a document and exploring its features), Introduction to MS-PowerPoint(Component of MS-PowerPoint window and its features, Inserting Graphics-Pictures and Shapes, Clip Arts, Symbols, SmartArt, Multimedia Objects, Text Box, Inserting Header & Footer and exploring its features, Running slide shows, Presentation Views), Internet, Computer Networks, Using Windows, 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.



SOF NATIONAL
SCIENCE OLYMPIAD

#### Total Questions: 50 Time: 1 hr.

	PATTERN & MARKING SCHEME										
Section	(1) Logical Reasoning	(2) Science	(3) Achievers Section								
No. of Questions	10	35	5								
Marks per Ques.	1	1	3								

#### SYLLABUS

Section – 1: Patterns, Analogy and Classification, Coding-Decoding, Geometrical Shapes, Mirror Images, Water Images, Embedded Figures, Direction Sense Test, Ranking Test, Alphabet Test and Logical Sequence of Words, Puzzle Test.

Section – 2: Animals, Human Body and Health, Plants and Food, Natural Resources, Pollution and Calamities, Earth and Universe, Matter, Force, Work and Energy.

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



To	ital Questions : 50				Time : 1 hr.							
ı	PATTERN & MARKING SCHEME											
	Section	(1) Logical Reasoning	(2) Mathematical Reasoning	(3) Everyday Mathematics	(4) Achievers Section							
	No. of Questions	15	20	10	5							
	Marks ner Oues	1	1	1	3							

**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.

Achievers Section: Higher Order Thinking Questions - from the above given Syllabus.



In association with 

BRITISH

COUNCIL

Total Questions : 50				Time: 1 hr.				
	PATTERN 8	& MARKING S	<b>СНЕМЕ</b>					
Section	Section (1) Word and (2) Reading (3) Spoken and Written Expression							
No. of Questions		45		5				
Marks per Ques.	1	1	1	3				

#### **SYLLABUS**

Section – 1: Spellings, Collocations, Idioms, Homonyms and homophones, Words related to feelings, Travel, Food, Health, Appearance, Character, etc. Nouns, Pronouns, Verbs and Phrasal Verbs, Adverbs, Adverbs, Adverbs, Prepositions, Punctuation, Tenses, Passive Voice and Reported Speech etc.

Section – 2: 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 – 3: Ability to understand situation-based variations in functions like requests, Refusals, Apologies, etc. and the use of conjunctions.

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



# N C W National Cyber Olympiad

		EOGIOAL	REASONING		
1.	How many times exactly to (A) 5 (B)	XYXXYXYX	er? ( X X Y Y X X Y X Y X (C) 2	X (D) 3	
2.	Which of the following opti (A) (C)		estion mark (?) in Fig. 2 (B)		? g. (X)
3.	If "MATHEMATICS" is code (A) DAMPOMYL (B)		AM" then how will "OLY (C) DAIPMYLO	MPIAD" be coded (D) IADYMPLO	?
4.	Which number lies in the c (A) 1 (B) 2 (C) 3 (D) 6	circle and square, bu	t not in the triangle?	1	2 3 4 5 6
	COMP	UTERS AND INFO	RMATION TECHNO	LOGY	
5.	Which of the following is N (A) Snap (B)		ero feature? (C) Bump	(D) Shake	
6.	What is a firewall in a network (A) It is the memory unit (B) A network operating so (C) A system preventing to (D) It is a web browsing so	of a network. ystem. inauthorized access	to a network.		
7.	Multimedia is used for mar (A) Education (B)		(C) Playing games	(D) All of these	
8.	Find the odd term out. (A) Scanner (B)	Pointing device	(C) OMR	(D) Printer	
9.	What is the significance of  (A) To mark them as spar  (B) To easily mark certai  to indicate that you not  (C) Star marked mail will  (D) Star marked mail will re	m message.  n messages as imposed to reply to them  be deleted after som	ortant or later.	me in inbox of Gr Juanita, me (2) Silva, me (2) Henri Rousseau	Mail?  Let's have dinner  New flyer idea - Hi  Sibling Portrait - H
10.	. Which of the following dev (A) Trackball (B)	•	audio as audible audio	o? (D) Speaker	
11.	Which of the following icor that are not present on the (A) (B)	e keyboard?	t 2010 is used to insert	the characters lik	ke □, ©, etc

12.	The small picture rep (A) Icon	resenting a program (B) Pictures	in Windows 7 is called (C) Images	d (D) Drive
13.		Paint, the option whic	ch is used to show the	drawing in a small reference window
	is (A) Grid	(B) Zoom in	(C) Bitmap	(D) Thumbnail
		ACHIE	VERS SECTION	
14.		video clips. Which of		ch he is required to include some will help him to insert a video clip in
	(A)	(B)	(C) T	(D)
15.			cards can be inserte to be received by a co	d into a computer motherboard via omputer system?
	(A)	(B) Extreme   San Disk	(C)	(D) William
	N S Q	Nation	al Scienc	ee Olympiad
		LOGIC	AL REASONING	
1.	If you are eleventh in (A) 11		her end, how many are (C) 20	e there in the queue? (D) 24
1.	(A) 11	a queue starting eit (B) 21	her end, how many ard (C) 20	•
	(A) 11	a queue starting eit (B) 21	her end, how many ard (C) 20	(D) 24
	(A) 11	a queue starting eit (B) 21	her end, how many ard (C) 20	(D) 24
	(A) 11 Choose the 2-dimens  (A)	a queue starting eit (B) 21 sional figure that repr	her end, how many are (C) 20 resents the 3-dimension	(D) 24 nal figure when viewed from top.
2.	(A) 11  Choose the 2-dimens  (A) The mirror image of S	a queue starting eit (B) 21 sional figure that repr (B) (B)	her end, how many are (C) 20 resents the 3-dimension (C) (C) placed vertically to the	(D) 24 nal figure when viewed from top.  (D)
2.	(A) 11  Choose the 2-dimens  (A) The mirror image of S (A) NOS  The term 'Reduce' is example of the oppose of the following packat (A) Filling a cereal be	a queue starting eit (B) 21  sional figure that repr (B)  SON, if the mirror is (B) 20N  one of the three R's site of reducing is over aging activities is ant ox completely in a cardboard box, the cking material around	her end, how many are (C) 20 resents the 3-dimension (C) (C) placed vertically to the (C) 20  SCIENCE (reduce, reuse and rever-packaging which is i-environment? Then putting that box in a fragile item	(D) 24 nal figure when viewed from top.  e left is (D) MO2 ecycle) to save the environment. An an anti-environment activity. Which

is a good conductor of electricity. (A) Metal (C) Plastic (B) Rubber (D) All of these 7. A small baby plant coming out of a seed is (A) Grain (B) Root (C) Dispersal (D) Seedling. 8. Which of these is needed to measure the mass of a rock? (A) A balance (B) A barometer (C) A metric ruler (D) Thermometer Burning of garbage leads to \_\_\_(i)\_\_ (i) can cause deadly diseases such as \_\_(ii)\_\_ and asthma. Which of the following options correctly fills the blanks (i) and (ii)? (A) (i)-Air pollution, (ii)-Lung caner (B) (i)-Water pollution, (ii)-Lung caner (C) (i)-Soil pollution, (ii)-Cholera (D) (i)-Water pollution, (ii)-Typhoid 10. The substance that makes plants green is known as (A) Water (B) Chlorophyll (C) Carbon dioxide (D) Calcium. 11. Which of the following figures are included in first class levers? (A) 1, 2 and 4 (B) 1, 2 and 3 (C) 3, 4 and 5 (D) 1, 4 and 5 12. Look at the figure. It shows lunar eclipse. Where will be the Earth in it? а b (C) c (A) a (B) b (D) d 13. If there is no rain, crops fail to grow. This condition will lead to (A) Flood (B) Drought (C) Famine (D) Both (B) and (C). **ACHIEVERS SECTION** 14. Three different types of plants X, Y and Z, were selected by scientists who want to document their methods of seed dispersal. The graphs below show the approximate number of seedlings found at various distances around the parent plant. Number of seedlings Number of seedling Number of seedlings Distance/km Distance/km Distance/km Which option most correctly lists the methods of seed dispersal of each plant?

Animal

Water

Animal

Explosive action

X (A) Water

(B) Wind

(C) Wind

(D) Explosive action

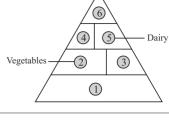
Explosive action

Animal

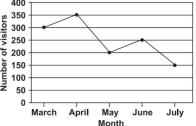
Animal

Water

15.	Identify 1, 3, 4	and 6 in t	he given p	yramid and select the	
	correct option.			_	
	1	3	4	6	
	(A) Fruits	Grains	Proteins	Sweets and fats	
	(B) Grains	Fruits	Proteins	Sweets and fats	Vegetables -
	(C) Proteins	Fruits	Grains	Sweets and fats	/
	(D) Fruits	Proteins	Fats	Grains	
	M	Int	ernat	ional Mathen	natics (
			LC	OGICAL REASONING	
1.	•	-		ntalog. She can choose one	1 2 1 1 2



#### Olympiad one of three fabric patterns: stripes, plaid, or flowers. At most how Short Stripes Plaid Flowers many different combinations could Shelley order choosing a length Long Skirts Fabric Patterns and a fabric pattern? (A) 2 (B) 3 (C) 5 (D) 6 The number of cubes in the given figure is \_\_\_\_\_. (A) 11 (B) 12 (C) 13 (D) 14 Find the odd numeral out. (C) 12 (A) 7 (D) 6 4. Which of the following is ninth to the right of the seventeenth from the right end of the given arrangement? M4ET%J9IB@U8©N#F1V7★2AH3Y5\$6K (B) % (A) A (C) I (D) Y **MATHEMATICAL REASONING** 5. Which figure has an area of 8 sq. units and a perimeter of 12 units? (Each square block is of side 1 unit). (A) (B) (C) 400 6. The line graph shows the number of people who visited a visitors 300 350 350 museum from March to July. How many more visitors were there in April than in June? **5** 200 (A) 200 Namper 150 100 50 (B) 350 50 (C) 150



- (D) 100
- 7. How many angles inside the figure are greater than a right angle?
  - (A) 5

(B) 6

(C) 7

(D) 8



8.	What fraction of the fi (A) 1/4 (B) 1/3 (C) 1/5 (D) 1/2	gures are 💟 ?		♡ ◇ ☆ ♣ ♡ ☆ ☆ ♣ ♡ ☆ ◇ ♠ ♣ ◇ ☆ ◇ ☆ ♡ ♡ ☆ ♣ ♡ ♣ ◇
9.		n a movie. The time that w long did the movie la		d ended are shown on the two  11 12 1 10 2 10 11 12 1 2 9 3 3 8 7 6 5  Starting Time Ending Time
10.				Yellow' is called 'Green', 'Green', then what would be the colour  (D) Violet
	(A) Neu		MATHEMATICS	(D) VIOICE
44	Harry had 500 pains i			acks. Each stock had the same
	-	many coins were in ea (B) 45		acks. Each stack had the same (D) 12
12.		s enrolled in Elementary are enrolled at Middle S (B) 762		has 276 fewer students enrolled.  (D) 638
13.	Tom left home at 7:1 of time Tom was away (A) 7 hours 30 minute (C) 3 hours 30 minute	y from home? es	e returned home at 4 : 4  (B) 9 hours 30 minut  (D) 8 hours 30 minut	
		ACHIEVE	RS SECTION	
14.	Part of a scale is show	wn below. What is the v	9.9 10.0	X? (in cm)
	(A) 10.02 cm	(B) 10.04 cm	(C) 10.2 cm	(D) 10.4 cm
15.	Vivek rented a bicycle (A) ₹ 13 (C) ₹ 22	e for 3 hours. How muc	(B) ₹ 19 First h	cle for Rent nour: ₹ 7 additional $\frac{1}{2}$ hour: ₹ 3
	I E Q I	nternatio	nal Englis	sh Olympiad
		WORD AND STR	JCTURE KNOWLEDG	E
Dire	ection : Complete the	word using the letter	rs from the given option	on.
1.	· · · · · · · · · · · · · · · · · · ·	p my birthday presents (B) Im		(D) Ir

Dir	ection : Complete the	sentence with the co	rrect	spelling of the w	ord.	
2.	I like to readto (A) Allowed	my brother. (B) Aloud	(C)	Alaud	(D) N	lone of these.
Dir	. ,	derlined phrase with i	. ,		(D) 1	done of these.
3.		o make her finish her m		Trect meaning.		
٥.	(A) Unable to do son			Using a pipe		
	(C) With a lot of effor	t	(D)	None of these.		
4.			(D)	Charles area . Con	.4	
	<ul><li>(A) Teacher : Studen</li><li>(C) Doctor : Librarian</li></ul>		, ,	Shopkeeper: Cus None of these.	stomer	
Dir	ection (Q. No. 5 and (	6) : Fill the correct wo	rd.			
<b>5</b> .	You have to go	this door to reach the	e libr	ary.		
	(A) From	(B) By	(C)	Through	(D) N	lone of these
6.		articipate in the maratho			_	-
	(A) Should	(B) Shall	(C)	Can	(D) N	lone of these
Dir	ection : Spot the erro	or in the sentence.				
7.	This doll (A)	/ <u>was my</u> / (B)	<u>be</u>	efore I gave it to you (C)	<u>u</u> .	No error (D)
	<ul><li>(B) Sangeeta is wate</li><li>(C) I will start my cou</li><li>(D) None of the above</li></ul>	urse on June.				
		RE	ADI	NG		
Dir	oction (O. No. 9 and :	10) : Read the passage	n and	d answer the follo	wing a	uestions
	s Jabber Blabber,	10) . Read the passage	e and	a answer the lono	willig q	uestions.
	,	ked to the blackboard a		•		•
	•	d draw a picture of it in			King to	your neighbour, choose
-	squealed very thrilled				E: "	
	ared at the words. The I tapped on his head.	en i tapped my chin. An	d I S	cratched my head.	Finally,	, I reached out to Rahul
"Ps	st, Rahul", I whispered	l, "which word are you o	drawi	ng?"		
	r jumped up from her s r, Sir, Jenny is talking t	eat and pointed at me.				
		er famous name, one that	at sh	e never liked, "J Jo	y Jabb	er Blabber"!
9.		e teacher because				
	<ul><li>(A) She couldn't do h</li><li>(B) They were not in</li></ul>	ner work. cluding her in their conv	/ersa	tion.		
	(C) She wanted to sh	now the teacher that she			ent.	
	(D) None of the abov	e.				
10.	Which of the following (A) Irritating	g words would Rahul ar (B)Liar		nny use to describe Friendly	-	lone of these

### SPOKEN AND WRITTEN EXPRESSION

Dire	ection (Q. No. 11 to 1	B) : Find one sentence	to complete the dialo	gue.
11.	Minu :	u come back from the z	•	
	(A) Yes, I did.	(B) I will think about it.	(C) I cannot come.	(D) None of these.
12.	Teacher 1 : You have Teacher 2 :	got a list of students. H	ow many of them are c	oming to the picnic?
	(A) I don't know.	(B) I can't see them.	(C) I haven't got any.	(D) None of these.
13.	Sentence 2. Sentence 3. You are i	nvited. It my place at 6:00 pm.		a gift.
		ACHIEVE	RS SECTION	
Dire	ection : Choose the c	orrect word/phrase.		
14.	I get so angry when I fine if they see you do (A) Litter	ping it.	olace. In some countrie  (C) Drop litter	s, the police makes you pay  (D) Dropping
Dire	ection : Choose the b	. ,	, ,	· / / / / / / / / / / / / / / / / / / /
	Archana : Are you tire Kapil :(A) Yes, in the mornir	d? ng I eat a lot.	• •	
	(C) Yes, I am always	ready to sleep.	(D) Yes, we need to d	Irink juice.

SPACE FOR ROUGH WORK

	ANSWERS																						
N	ational	Cy	ber O	lymp 3.	iad (C)	Na				Olym	•	Ir	iterna		I Mat		atics		Inter		nal E	_	sh
4. 7. 10. 13.	` '	5. 8. 11. 14.	(C) (D) (D)	6. 9. 12. 15.	(C) (B)	1. 4. 7. 10. 13.	(B) (B) (D) (B) (D)	2. 5. 8. 11. 14.	(D) (C) (A) (B) (C)	3. 6. 9. 12. 15.	(D) (A) (A) (B) (B)	1. 4. 7. 10. 13.	` '	2. 5. 8. 11. 14.	(B) (B) (A) (A)	3. 6. 9. 12. 15.	` '	1. 4. 7. 10. 13.	(C) (C) (B) (A) (A)	2. 5. 8. 11. 14.	(B) (C) (C) (A)	3. 6. 9. 12. 15.	(C) (A) (C) (A) (B)