

SAMPLE PAPER SYLLABUS 2016-17







SOF NATIONAL CYBER OLYMPIAD

SYLLABUS

Total Questions : 35

PATTERN & MARKING SCHEME											
Section	(1) Logical Reasoning	(2) Computers & IT	(3) Achievers Section								
No. of Questions	5	25	5								
Marks per Ques.	1	GRIGHT 181	2								

Section - 1: Patterns, Analogy and Classification, Coding-Decoding, Mirror Images, Embedded Figures, Alphabet Test, Ranking Test, Grouping of Figures, Figure Matrix, Geometrical Shapes, Days and Dates & Possible Combinations.

Section - 2: Fundamentals of Computer, General Information about Computers, Storage Devices, Parts of Computer, Uses of Computer, Input and Output Devices, Introduction to Internet, MS-Paint, Introduction to MS-Word (Opening, Closing, Saving and Printing a Word document, Components of MS-Word window, Editing commands like Cut, Copy, Paste, Undo and Redo, Moving in a document using Home and End Keys), Latest Developments in

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

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

LOGICAL REASONING Which option will complete the Fig. (X)? (A) (C) Fig. (X) shows group of 5 trees, and

shows group of 5 houses. Which of the following figure shows 10 houses surrounded by 20 trees ?



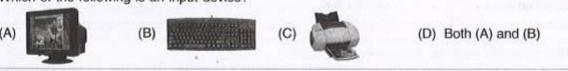


3. If ⊕ means +, ⊙ means - , ♀ means > , To means <, then which of the following is NOT true? (A) 2 15 24 (B) 5 0 3 0 7 (C) 10 @5 \$ 5

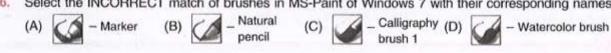
COMPUTERS AND INFORMATION TECHNOLOGY

4.	Which of the following	icons is used to	draw perfect circle in	MS-Paint of Windows 7?
	(A)	(B) ((C) \	(D) N

Which of the following is an input device?



Select the INCORRECT match of brushes in MS-Paint of Windows 7 with their corresponding names.



		5	
7.	1	1	re

presents which part of computer?

- (A) Keyboard
- (B) Mouse
- (C) CD
- (D) CPU
- Which of the following statements about a computer is NOT correct?
 - (A) You can watch movies on it.
- (B) You can solve your sums on it.
- (C) You can play games on it.
- (D) You can cook food with it.
- The key that erases characters towards the left is

- Spacebar (D)

- Find the odd term out.
 - (A) Keyboard
- (B) Mouse
- (C) Monitor
- (D) Joystick

is also called

- (B) CPU
- (C) ALU
- (D) CU

- 12. MS-Paint is a Windows program that is used for
 - (A) Calculations

(B) Writing letters

(C) Drawing purposes

- (D) Preparing presentations
- 13. Which of the following is NOT an example of search engine?
 - (A) Google
- facebook (B)
- bing (1) YAHOO!

ACHIEVERS SECTION

- 14. Alia wants to create a shortcut for MS-Word 2010, so that she can quickly access it. But she does not know the correct sequence of steps required to follow to create a desktop shortcut. Help her by rearranging the given steps in the CORRECT order.
 - (A) $4 \rightarrow 1 \rightarrow 2 \rightarrow 6 \rightarrow 5 \rightarrow 7 \rightarrow 3$
 - (B) $1 \rightarrow 2 \rightarrow 4 \rightarrow 7 \rightarrow 3 \rightarrow 6 \rightarrow 5$
 - (C) $4 \rightarrow 3 \rightarrow 2 \rightarrow 7 \rightarrow 1 \rightarrow 5 \rightarrow 6$
 - (D) $6 \rightarrow 1 \rightarrow 5 \rightarrow 7 \rightarrow 2 \rightarrow 4 \rightarrow 3$

Dusktop (create shortcut) optic

- Identify the following.
 - It is a device that converts textual data into spoken sentences.
 - It is used to read the text information to blind persons.
 - It translates the entered text into spoken words.















SOF NATIONAL

SCIENCE OLYMPIAD

Total Questions	: 35			Time ; 1 hr.
HERE STATE	CHECK !	PATTERN & MAI	RKING SCHEME	
Sectio	n	(1) Logical Reasoning	(2) Science	(3) Achievers Section
No. of Que	0.00	5	25	5
Marks per		1	1	2

Section - 1: Patterns, Analogy and Classification, Coding-Decoding, Mirror Images, Embedded Figures, Alphabet Test, Ranking Test, Grouping of Figures,

Figure Matrix, Geometrical Shapes, Days and Dates & Possible Combinations. Section - 2: Plants and Animals, Birds, Food, Housing and Clothing, Transport and Communication, Human Body, Earth and Universe, Matter and Materials, Light, Sound and Force, Our Environment.

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

LOGICAL REASONING

1.	If Anshuman spins the wheel once, the sp	oinner will least likely come on
	(A)	(B) (B)
	(C)	(D)
2.	If : 0, then : ?.	
	(A) (B) X	(C) (D)
3.	The figure has straight lines and (A) 9, 10 (B) 14, 12 (C) 16, 9 (D) 15, 10	_ curves.
	NO PARK TO A PAR	SCIENCE
4.	What can be the reason that a taxi driver driving on a hot summer day? (A) Gravitational force between taxi and road (B) Frictional force between taxi and road (C) Gravitational force between taxi and road (D) Frictional force between taxi and road	d is lower on a rainy day. road is lower on a rainy day.
5.	Water droplets that are too heavy to float (A) Fog (B) Clouds	make (C) Rain (D) Smoke.
6.	Which of these organ systems gives shape of the body such as lungs, brain, liver, he	e and support to our body and protects the important organs eart, etc.? (C) (D)
7.	The figures below show the roots of son firmly to the soil ?	ne plants. Which of the following will hold the plant most
	(A) (B)	(C) (D) (D)
8.	Ducks have (A) Short and broad beaks (C) Slender beaks	(B) Broad and flat beaks (D) Pointed beaks.
9.	Look at the classification table shown. 'P' and 'Q' are correctly represented by _P (A) Tomato (B) Mimosa (C) Pineapple (D) Apple	Q Fruits Chilli Edible Inedible Dragon fruit P Q Rubber Coconut

- 10. Renu's grandmother got seriously ill in afternoon and needs to be taken to hospital immediately. In such situation, which of the following modes should she most preferably use in order to communicate to her father who was in his office?
 - (A) E-mail
- (B) Letter
- (C) Radio broadcast
- (D) Phone call

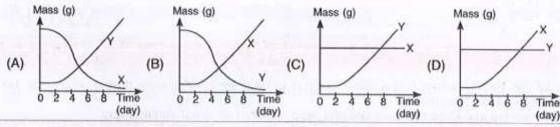
- 11. The bird that lays its eggs in the nest of a crow is
 - (A) Cuckoo
- (B) Parrot
- (C) Wood pecker
- (D) Pigeon.

- 12. Which of the following will not dissolve in water?
 - (A) Salt
- (B) Sugar
- (C) Sand
- (D) Baking soda

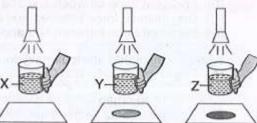
- 13. Soil helps trees because soil
 - (A) Makes food for the trees
 - (C) Gives nutrients to the trees
- (B) Moves the tree seeds to new places
- (D) Turns the roots into new trees.

ACHIEVERS SECTION

14. When a seedling grows, it depends on the seed leaves for nutrition until the first leaves are formed. Which of the following graph correctly identifies the changes in mass of seed leaf (X) and shoot (Y) over time?



- Observe the given pictures carefully and select the correct conclusion regarding liquids X, Y and Z.
 - (A) Liquid X is transparent and liquid Z is translucent.
 - (B) Liquid Y is opaque and liquid Z is translucent.
 - (C) Liquid X is transparent and liquid Z is opaque.
 - (D) Liquid Y is transparent and liquid Z is opaque.





otal Questions : 35	-	-	NAME AND ADDRESS OF THE OWNER, WHEN	Time: 1
	PAT	TERN & MARKING SCH	IEME	
Section	(1) Logical Reasoning	(2) Mathematical Reasoning	(3) Everyday Mathematics	(4) Achievers Section
No. of Questions	10	10	10	5
Marks per Ques.	1	citor unantescut es	1	2

SYLLABUS: Number Name and Number Sense (4 digit numbers), Addition, Subtraction, Multiplication, Division, Fractions, Money, Length (conversions), Weight, Capacity, Time, Point, Problems Based on Figures, Odd One Out, Patterns, Series Completion, Coding-Decoding, Mirror Images, Embedded Figures, Straight Lines and Curved Lines, Geometrical Shapes.

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

LOGICAL REASONING

Meena made this pattern with balls:



Which of the following uses a rule most different from Meena's pattern?



















2.	If Pawan has baseball practi	ce every fourth day in the	ne month of March, sta	arting	Cours	M	ARC	Н	65	500
	with March 1, what date wi	il be his last day of pra	actice for the month?	S	M	Т	w	Th	F	S
	(A) March 28			Und o			-	(H)	2	3
	(B) March 29			4	1	6	7	8	9	10
	(C) March 30			11		-			_	17
	(D) March 31			25	1	-	-	29	-	-
3.	Komal built a birdhouse at a What shape is the piece of (A) Triangle (C) Circle	wood that was cut ou (B)	t to make the door of Diamond Pentagon	her birdh	ouse	?	1	-	1	-
4.	How would the given block	model look from the to	op?							
	(A)	(B)			É	7	7	1	7	
	(C)	(D)			_				~	
	THE RESERVE AND ADDRESS.	MATHEMATICAL	REASONING	MAY T		115			100	
5.	Tina shades in 3 spaces or game board is shaded? (A) 3/6 (C) 3/3	(B)	fraction of the 3/5 6/3			Gai	me	Во	arc	
6,	What is the standard form (A) 7,285 (B)			D) 7,528				70		
7.	$8 \times 9 = $ + 9 + 9. The m (A) 54 (B)		43 (1	D) 34	00					
8.	Tanya started watching teletime did she go to bed ? (A) 10:27 p.m. (B)	vision at 8 : 47 p.m. Sh 10 : 17 a.m. (C)		d 1 hr 40 D) 9:27			ter.	. At	w	hat
9.	The product of a number ar (A) 40 (B)	nd 6 is 240. The numb	er is	D) 1440						
		EVERYDAY MAT	THEMATICS	0/0116-4-	uno:	90	ř.	9	oli	
10.	Sara and 3 of her friends to each row. How many square (A) 48 (B)	es did Sara and her fri	ends draw on the pos	ster?	with	h 6	sq	ua	res	in
-		(-/		0) 17				-	_	_
11.	Third-grade students went to went to the theatre? (A) 320 (B)		18928	udents. H D) 3240	low i	mar	ny :	stu	dei	nts
12.	A class collected seven hu fourteen?	undred fourteen box t	tops. Which number	-	ts s	eve	n	hur	ndr	ed
_	(A) 704 (B)	714 (C)	740 ([0) 741			0			
13.	If Rizvan sells 479 eggs eac (A) 486 (B)		COLUMN TO THE CO	ek ? O) 3353						
	the part of the man in year have	ACHIEVERS S	SECTION	THE PARTY OF	15	19	Phy.		E	
14.	Look at the given number be Q is 1 more than P. Then, P + Q =	ond.			3×5		\	>4	64	
	(A) 1 (B)	5 (C)	6 ([0) 9 《	2×5					

15. Find the value of x.



(A) 11

(B) 16

(C) 20

D) 14



Total Questions : 35	PATTERN	& MARKING	SCHEME	Time : 1
Section	(1) Word and Structure Knowledge	(2) Reading	(3) Spoken and Written Expression	(4) Achievers Section
No. of Questions	of has his diny ma	30		5
Marks per Ques.	1	1	1	2

SYLLABUS

Section — 1: Word Power: Homophones, Collocations, Spellings, Words related to animals, Household things, Clothes, Basic emotions, Food, Animals and Pets, etc. Synonyms and Antonyms, Gender, Number, Proverbs, One Word, Nouns, Pronouns, Verbs, Adverbs, Adjectives, Articles, Prepositions, Simple Tenses, Conjunctions and Punctuation, Basic Questions etc.

Section – 2: Search for and retrieve information from various text types like stories, Anecdotes, etc. Understand information through pictures, Time-table format, 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 apology, greeting, introduction, request, etc.

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

WORD AND STRUCTURE KNOWLEDGE

- 1. Find the correct word for the picture.
 - (A) Writer
 - (B) Dancer
 - (C) Singer
- 2. Find the odd pair.
 - (A) Cat : Kitten
- (B) Cow: Calf
- (C) Pig: Pigeon

Direction: Complete the sentence with the correct spelling of the word.

- 3. The bear went over the
 - (A) Mountan
- (B) Mountain
- (C) Mountane

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

- 4. There are thirty tables and thirty _____ in my classroom.
 - (A) Chair
- (B) Chairs
- (C) A chair
- My teacher's name is Sheela. I like
 - (A) Her
- (B) Him
- (C) She

- 6. Find the incorrect sentence.
 - (A) I go for a walk.

(B) My father's name are Prasad.

(C) My name is Kishan.

READING

Direction (Q. No. 7 to 10): Read the letter and answer the following questions.

<u>Letter to Rudolf, Santa's Reindeer</u>

Dear Rudolf,

My name is Meethu. I am a baby parrot! I live with my friend in the great city of Mumbai in the state of Maharashtra. Of course, that's in India, but I'll bet you knew that! Rudolf, some things that I might like for Christmas this year, two bags full of my favourite seed-mix, lots of green chillies and another baby parrot to play with. And please don't forget to put in a good word for my friend with Santa! He is very nice. He doesn't keep me in a cage.

Lots of Love

Meethu

**	VIII 200 400	thu lives in Hyderabad	 (B)	Mumbai	(C)	A cage
3.		thu asks for Two things		Three things	(C)	Five things
9.	Meet	thu asks Rudolf	fsome	things for		
	(A)	Christmas	(B)	Holi	(C)	Good Friday
10.	(A)	does Meethu li He doesn't give He allows Meet	him fo	od.	(B)	He puts Meethu in a cage.
11.	(A) (B) (C)	a sentence ma The girl is posti A crow is lookir The girl is looki The crow is post The girl is buyin There is a post	ing a le ng at he ing at th sting a ng vege	tter. er. ne crow. letter.		
	ectio		nd 13) :	: Find one sent	ence to	EN EXPRESSION complete the dialogue/paragraph.
12.	Gee Lina (A) Ran He s	tha: Hello! I and it is the second of the se	nd 13) : m Geeth a. (B) swim in th and v Ram an	Find one sent na. What is your Hello! I am goin the sea. vatched Rahul a ice cream but h	name? ng home	e. (C) Let us go home. esh. t want it.
12.	Gee Lina (A) Ran He s	tha: Hello! I and it is the second of the se	nd 13) : m Geeth a. (B) swim in th and v Ram an	Find one sent na. What is your Hello! I am goin the sea. vatched Rahul a ice cream but h	name? ng home and Mah he didn'	e. (C) Let us go home. esh. t want it. But, Paul didn't want to.
13.	ection Gee Lina (A) Ram He s (A) (B)	tha : Hello! I and it is the lot of the lot	nd 13) and Geeth a. (B) swim in the and want the want	Find one sent na. What is your Hello! I am goin in the sea. watched Rahul a ice cream but it tter.	name? ng home and Mah he didn'	e. (C) Let us go home. esh. t want it.
12.	ection Gee Lina (A) Ram He s (A) (B)	tha: Hello! I and the Hello! I am Lina in didn't want to sat on the beach Mummy gave If They played in the Choose the teacher is sittire.	nd 13) an Geeth a. (B) swim in th and v Ram an the wa	Find one sent ha. What is your Hello! I am goin h the sea. watched Rahul a ice cream but I tter. ACHIE	name? ng home and Mah he didn' (C)	e. (C) Let us go home. esh. t want it. But, Paul didn't want to.
12. 13. Dir 14.	ection Gee Lina (A) Ram He s (A) (B)	tha: Hello! I and the Hello! I am Lina in didn't want to sat on the beach Mummy gave If They played in the Choose the teacher is sittire.	nd 13) an Geeth a. (B) swim in the and vertex the ware correcting (B)	Find one sent na. What is your Hello! I am goin the sea. vatched Rahul a ice cream but i tter. ACHIE ct word his desk. At	name? ng home and Mah he didn' (C)	e. (C) Let us go home. lesh. t want it. But, Paul didn't want to.
12. 13. Dir 14.	ection Gee Lina (A) Ram He s (A) (B) ection The (A) rection	tha: Hello! I and it is the image of the image of the beach of the beach of the beach of the played in the control of the image of the	nd 13) and Geeth a. (B) swim in the and we correctly (B) e best inner,	Find one sent ha. What is your Hello! I am goin h the sea. watched Rahul a ice cream but I tter. ACHIE ct word, his desk. At	name? ng home and Mah he didn' (C) VERS	e. (C) Let us go home. lesh. t want it. But, Paul didn't want to.

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