SOF

SCIENCE OLYMPIAD FOUNDATION

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SOF NATIONAL CYBER OLYMPIAD

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

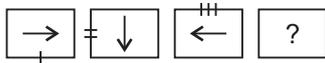**Section – 1 :** Verbal and Non-Verbal Reasoning.

Section – 2 : Fundamentals of Computer, Evolution of Computers, Memory & Storage Devices, Using Windows, MS-Word(Links, Mail Merge, Macros, Exploring Styles group), MS-PowerPoint(Working with Slides Master and Themes, Advancing slides using Hyperlink and Actions, Customizing and Broadcasting Slide Shows), MS-Excel (Components of MS-Excel window, Editing and formatting cells in a worksheet, Introduction to Formulas, Sorting and filtering data, Macros, Features of Insert and Page layout tabs), Programming in QBasic, Internet & Viruses, Networking, 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. Which of the following options will complete the given series?
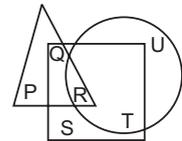

(A)
(B)
(C)
(D)

2. If TOGETHER is written as RQEGRJCT, how will PAROLE be written?
(A) NCPQJG
(B) NCQPJG
(C) RCPQJK
(D) RCTQNG

3. In the given figure, the triangle represents girls, square represents sportspersons and circle represents coaches. Which portion of the figure represents girls who are sportspersons but not coaches?

(A) P
(B) Q
(C) R
(D) S

4. Five boys A, B, C, D and E are standing in a row. A is between C and D and B is between D and E. Which of the following pairs represents the boys standing at both the ends?
(A) C, B   (B) E, C
(C) E, A   (D) A, C

5. A man goes towards east five kilometres, then he takes a turn towards right and goes five kilometres. He again takes a turn towards right and goes five kilometres. With respect to the point from where he started, where is he now?
(A) East   (B) North
(C) West   (D) South

COMPUTERS AND INFORMATION TECHNOLOGY

6. MBP is a short form for a famous high end notebook from Apple. It is called _____.
(A) Macintosh Book Pro
(B) Mac Book Programmable
(C) Mountain Book Pro
(D) MacBook Pro

7. You can join an Active Directory domain in which of the following Windows 7 versions?
(i)   Windows Home Edition
(ii)   Windows Professional Edition
(iii) Windows Ultimate Edition
(iv) Windows Enterprise Edition
(A) Only (i) and (ii)   (B) Only (iv)
(C) Only (ii), (iii) and (iv)
(D) All of these

8. The function of 'Wrap Text' icon in MS Excel is used to _____.
(A) Join selected cells into one larger cell
(B) Rotate text to a diagonal angle
(C) Make all content visible within a cell by displaying it on multiple lines
(D) Highlight interesting cells

9. Match the following terms with what they stand for

Term		Stands for
(i)	.com	(a) Education
(ii)	.edu	(b) India
(iii)	.in	(c) Australia
(iv)	.au	(d) Commerce

(A) (i)-(a), (ii)-(b), (iii)-(c), (iv)-(d)
(B) (i)-(b), (ii)-(c), (iii)-(d), (iv)-(a)
(C) (i)-(c), (ii)-(d), (iii)-(a), (iv)-(b)
(D) (i)-(d), (ii)-(a), (iii)-(b), (iv)-(c)

10. A browser is an interactive program that permits a user to view web pages on the computer. The browser performs which of the following services?
(A) Connecting to the source computer whose address is specified
(B) Requesting new page from the server
(C) Receiving new page
(D) All of these

11. Modern Computers compared to earlier computers are _____.
(A) Faster and larger   (B) Less reliable
(C) Larger and stronger (D) Faster and smaller

12. In MS-Word, which shortcut key is used to increase the font size of text?
(A) Ctrl + F   (B) Ctrl + Alt + F
(C) Ctrl + Shift + >   (D) Ctrl + Shift + X

13. Match the virus types given in Column-I with their corresponding examples given in Column-II.

Column-I		Column-II	
(a)	Macro Virus	(i)	Lamer Exterminator
(b)	Boot Sector Virus	(ii)	Natas
(c)	Polymorphic Virus	(iii)	Melissa

(A) (a)-(iii), (b)-(i), (c)-(ii)
(B) (a)-(i), (b)-(ii), (c)-(iii)
(C) (a)-(ii), (b)-(i), (c)-(iii)
(D) (a)-(iii), (b)-(ii), (c)-(i)

ACHIEVERS SECTION

14. Match the following output devices given in Column-I with their descriptions given in Column-II.

Column-I		Column-II	
(a)	Voice Response System	(i)	It produces audio output by selecting an audio output from a set of pre-recorded audio response.
(b)	Voice Reproduction System	(ii)	It enables a computer to talk to a user.
(c)	Speech Synthesizer	(iii)	It converts text information into spoken sentences.

(A) (a)-(ii), (b)-(i), (c)-(iii)
(B) (a)-(i), (b)-(ii), (c)-(iii)
(C) (a)-(iii), (b)-(ii), (c)-(i)
(D) (a)-(i), (b)-(iii), (c)-(ii)

15 . Which of the following QBASIC codes will produce the given output?
Output:
11
12
13

(A)
```
FOR x = 11 TO 15
PRINT x
IF (x = 13) THEN
EXIT FOR
NEXT x
```
(B)
```
FOR x = 11 TO 15
PRINT x
IF (x == 13) THEN
EXIT FOR
NEXT x
```
(C)
```
FOR x = 11 TO 15
PRINT x
IF (x <> 13) THEN
EXIT FOR
NEXT x
```
(D)
```
FOR x = 11 TO 15
PRINT x
IF (x = 13) THEN
EXIT FOR
MORE x
```

SPACE FOR ROUGH WORK

ANSWERS

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

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