

HS/XI/A.Sc. Com/CAP/18

2018

COMPUTER APPLICATIONS

(Theory)

Full Marks : 70

Time : 3 hours

The figures in the margin indicate full marks for the questions

General Instructions :

- (i) Write all the answers in the Answer Script
- (ii) Attempt Part — A Objective Questions serially
- (iii) Attempt all parts of a question together at one place

(PART : A – OBJECTIVE)

(Marks : 35)

1. Fill in the blanks from the list of words/phrases given below:

1×10 = 10

- (a) The rightmost bit in a binary number is called the _____.
- (b) _____ is the built-in software placed in ROM chip.

- (c) A memory is made up of large number of cells, with each cell capable of storing _____bit/bits.
- (d) _____ files are in plain ASCII format, with an extension .txt.
- (e) _____ is the Internet service that allows computers to transfer binary files across the Internet.
- (f) The key to the web is that files on different servers can be linked together using _____.
- (g) _____ Icons are displayed along the left edge of the screen.
- (h) The medium through which information moves from one network device to another is known as _____.
- (i) A _____ is a self-replicating program whose main intention is to infect computers when triggered by a specific event.
- (j) A _____ is used to boost the signal strength as it passes along a cable.

(3)

List of word(s)/phrases:

System	MSB	Text	Recycle bin	Hacker
Hyperlink	Virus	FTP	HTTP	LSB
Bridge	repeater	BIOS	Memory	Transmission media
One	two	Command	Trojan horse	Object

2. State whether the following statements are True or False:

1×10 = 10

- (a) Data inside a computer must match the technology used by the computer to store and process data.
- (b) A number system with a specified number as the base is called a non-positional number system.
- (c) The term used to reverse the last action is undo.
- (d) Windows is a very popular multiuser, time sharing operating system implemented in a large class of machines from PCs to super computers.
- (e) HTML is a word processing tool used for desktop publishing.
- (f) HTML tags are case sensitive.
- (g) is a empty tag.

(4)

- (h) Every URL on the web must be unique.
- (i) Radio buttons are used for selecting only one item from the list.
- (j) Cyber law is a term used to describe the legal issues related to use of communications technology, particularly “cyberspace”, i.e. the Internet

3. Multiple Choice Questions:

1×5 = 5

- (a) The basic architecture of computer was developed by
 - (i) Charles Babbage
 - (ii) John Von Neumann
 - (iii) Bill Gates
 - (iv) None of the above
- (b) SRAM is
 - (i) Super Random Access Memory
 - (ii) Static Random Access Memory
 - (iii) Small Random Access Memory
 - (iv) None of the above

(5)

- (c) A text editor is a
- (i) Word processor
 - (ii) Operating System
 - (iii) Database
 - (iv) None
- (d) Which of the following element renders the enclosed text in subscript?
- (i) `^{....}`
 - (ii) `<s>....</s>`
 - (iii) `_{....}`
 - (iv) `<HREF>....</HREF>`
- (e) Which of the following is not a topology
- (i) Linear Bus
 - (ii) Star
 - (iii) Ring
 - (iv) Workstations

(6)

4. Short answer type questions (Answer ANY 5) of the following: 2×5 = 10

- (a) Cache Memory
- (b) Scanner
- (c) Operating System
- (d) Implicit Styles
- (e) Internal link
- (f) Cookies
- (g) `<frame>` TAG
- (h) Bridges

(PART : B – DESCRIPTIVE)

(Marks : 35)

Attempt ANY TWO questions from each unit:

UNIT – I

- 5.**
- (a) What is the difference between a soft copy and a hard copy? 2
 - (b) What is the purpose of main memory in a computer? 2
 - (c) What is the full form of ASCII? 1

(7)

6. (a) Why do digital computers use binary numbers for their operation? 2
- (b) What is Unicode? What is the advantage of using Unicode? 2
- (c) What do you mean by positional number system? 1
7. Convert the following : (Any Two) $2\frac{1}{2} + 2\frac{1}{2} = 5$
- (i) $(D6C1)_{16} = (?)_{10}$
- (ii) $(41819)_{10} = (?)_{16}$
- (iii) $(110110.111)_2 = (?)_{10}$
- (iv) $(0.5625)_{10} = (?)_2$
8. Briefly explain the following terms: $1 \times 5 = 5$
- (a) Files
- (b) Folders
- (c) Desktop 2
- (d) Icons
- (e) Dialog Box 3

(8)

UNIT - II

9. (a) What makes a Web site different from a Web page? 1
- (b) How do you insert a comment in html? 1
- (c) What are the basic features of HTML tags? $1\frac{1}{2}$
10. What do you mean by tags? How many types of tags are there? Explain each type of tag with an example. $1 + \frac{1}{2} + 2 = 3\frac{1}{2}$
11. (a) Write down the differences between ordered list and unordered list. 2
- (b) What is the role of <hr>tag? What are the various attributes it can take? $1\frac{1}{2}$

UNIT - III

12. (a) How is images inserted in a web page? Write down all the attributes of tag. 2
- (b) What are the differences between <P>and
tags? $1\frac{1}{2}$

(9)

- 13.** (a) Explain the purpose of <TH>, <TD> and <TR> tags of Html table. 1½
- (b) Explain the following elements: 2
- (i) _{....}
- (ii) ^{....}
- 14.** (a) Explain preformatted text with a proper example. 2
- (b) What are the three attributes of the FONT element. 1½

Unit – IV

- 15.** (a) Write a note on <TEXTAREA> form element. 1
- (b) How is SUBMIT different from RESET in type attribute value of <INPUT>tag? 1½
- 16.** Explain <SELECT>tag with examples. 2½
- 17.** (a) What is a frame? 1
- (b) What is the use of 'Rows' and 'Cols' in frame. 1½

(10)

Unit – V

- 18.** Explain the three basic types of computer network. 3
- 19.** (a) What is a protocol? 1
- (b) Explain Star topology and Ring topology in brief. 2
- 20.** (a) How is guided communication medium different from unguided communication medium? 2
- (b) What do you understand by the term Network Security? 1
