

BACHELOR OF COMPUTER APPLICATION
First Semester (Repeat)
FUNDAMENTALS OF COMPUTER AND INFORMATION TECHNOLOGY
(BCA - 102)

Duration: 3Hrs.

Full Marks: 70

Part-A (Objective) =20
Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

Answer any four from Question no. 2 to 8
Question no. 1 is compulsory.

1. (a) What are the basic components of a computer? Explain with diagram.
(b) Explain the characteristics of a computer. (6+4=10)
2. (a) What is a software? What are the types of software? Explain with examples.
(2+3+3=8)
(b) Define LAN and WAN with suitable examples. (2)
3. What are the differences between main memory and secondary memory? Why RAM is called volatile memory? (5+5=10)
4. Define Web Page and Web site. What do you mean by Compiler and Assembler? Write notes on OCR and MICR. (4+3+3=10)
5. Write short notes on (*any two*): (5+5=10)
 - a. Star Topology and Ring Topology.
 - b. Input and Output device.
 - c. WWW and its application.
6. What are the various categories of Printer? Explain any two of them. (4+6=10)
7. (a) What are the communication types available in computer? Explain with examples. (6)

(b) What is a programming language? Explain the different types of programming languages. (4)

8. What are the main characteristics of a monitor? Explain different types of it.

(4+6=10)

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Duration: 20 minutes

Marks – 20

(PART A - Objective Type)

I. Choose the correct answer:

1×20=20

1. URL is
 - a. A computer software program.
 - b. A type of Web server.
 - c. The address of a document or page on WWW.
 - d. An acronym for unlimited resource for learning.

2.analyses and executes each line of source code in succession, without looking at entire program.
 - a. Compiler
 - b. Interpreter
 - c. Operating system
 - d. Device driver

3. The unit that performs the arithmetical and logical operations on the stored numbers is known as.....
 - a. Arithmetic Logic Unit
 - b. Control Unit
 - c. Memory Unit
 - d. Both (a) and (b)

4. CPU stands for:
 - a. Central Protection Unit
 - b. Central Processing Unit
 - c. Control Power Unit
 - d. Central Prerogative Unit

5. Select the smallest memory size:
 - a. Terabyte
 - b. Gigabyte
 - c. Kilobyte
 - d. Megabyte

6.is the most commonly used input device.
 - a. Keyboard
 - b. Printer
 - c. Monitor
 - d. None of the above

7. A high level language is a programming language that is –
 - a. Easy to use
 - b. Considered a first generation language
 - c. Considered a third generation language
 - d. Both (a) and (c)

8. Which of the following is system software?
 - a. Microsoft Word
 - b. Adobe Photoshop
 - c. Microsoft Powerpoint
 - d. Windows

9. A programming language closer to human language is
a. Assembly language b. High level language
c. Machine language d. None of the above
10. MICR stands for
a. Magnetic Ink Character Reader b. Magnetic Ink Code Reader
c. Magnetic Ink Cases Reader d. None of the above
11. Which language is directly understood by the computer without translation program?
a. Machine Language b. Assembly Language
c. High level Language d. None of the above
12. Scanner is an input device.
a. True b. False
13. Mobile phone communication is a half-duplex communication.
a. True b. False
14. Protocol is a way through which we can physically arrange a network.
a. True b. False
15. A terabyte comprises
a. 1024 gigabyte b. 1024 kilobyte
c. 1024 megabyte d. 1024 byte
16. The transmission mode which allow both communicating devices to transmit and receive data simultaneously is:
a. Simplex b. Full Duplex
c. Half Duplex d. None of the above
17. LAN stands for :
a. Long Area Network b. Local Area Network
c. Local Audible Network d. Limited Area Network
18. The network topology in which devices are not linked to each other and where hub acts as a central controller is:
a. Mesh topology b. Star topology
c. Ring topology d. Tree topology
19. A computer network which provides long distance transmission of data, images and sound over a large distance is:
a. MAN b. WAN c. LAN d. VAN
20. In a bus topology, the communication channel consists of only one path for a message to travel to the server.
a. True b. False
