

BACHELOR OF COMPUTER APPLICATION
First Semester
Fundamentals of Computer and Information Technology
(BCA - 02)

Duration: 3Hrs.

Full Marks: 70

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

1. Answer the following questions (any *five*):

2×5 = 10

- a) List the drawbacks of the second generation computers.
- b) List three significant limitations of the computer.
- c) What is simplex and full duplex communication?
- d) What are the different types of printer available?
- e) Give abbreviated form for: -
MICR and VLSI
- f) What is cache memory?
- g) What do you mean by www?

2. Answer the following questions (any *five*):

3 × 5 = 15

- a) Compare third and fourth generations of computer.
- b) Describe the characteristics of the computer.
- c) Describe the first generation computer based on the (i) Hardware (ii) Software and (iii) Computing characteristics.
- d) What is a scanner? Write down its working principle.
- e) Write short notes on Modem.
- f) How bar code reader converts its bars into its equivalent digital form?
- g) Differentiate between Intranet and Internet.

3. Answer the following questions (any five):

5 × 5 = 25

- a) Explain in detail the components of computer hardware.
- b) Describe operating system.
- c) Differentiate assembler and interpreter.
- d) Compare star topology and ring topology.
- e) Write down the working principle for reading and writing operation of Optical disk.
- f) What is Software? Explain its types.
- g) Write about Hard Disk Drive.

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(The figures in the margin indicate full marks for the questions)

Duration: 20 minutes

Marks – 20

PART A- Objective Type

(Figure in the margin indicates Full marks of the question)

Choose the correct answer:

1×20=20

1. The Language that the computer can understand is called _____.
a) High Level Language b) Machine Language
c) System Program d) Assembly Language
2. Which of the following have the fastest access time?
a) Semiconductor Memories b) Magnetic Disk
c) Magnetic Tapes d) Compact Disk
3. MODEM stands for?
a) Multicomputer Operating Device Memory b) Modulator Demodulator
c) Mega Storage Device d) None of the above
4. Which of the following are the cheapest memory devices in terms of Cost/Bit?
a) Semiconductor memories b) Magnetic Disks
c) Compact Disks d) Magnetic Tapes
5. Magnetic Tape used _____ access method.
a) Random b) Sequential
c) Direct d) None of the above
6. Personal computers use a number of chips mounted on a main circuit board. What is the common name for such boards?
a) Daughter board b) Motherboard
c) Father board d) Breadboard
7. The system unit of a personal computer typically contains all of the following except:
a) Microprocessor b) Disk controller
c) Serial interface d) Modem

8. A computer program that converts an entire program into machine language is called a/an
 a) Interpreter
 b) Simulator
 c) Compiler
 d) Commander
9. Which of the following devices have a limitation that we can only store information to it but cannot erase or modify it?
 a) Floppy Disk
 b) Hard Disk
 c) Tape Drive
 d) CDROM
10. Which of the following storage devices can store maximum amount of data?
 a) Floppy Disk
 b) Hard Disk
 c) Compact Disk
 d) Magneto Optic Disk
11. In order to play and hear sound on a computer, one needs:
 a) a sound card and speakers
 b) a microphone
 c) all of them required
 d) none of them required
12. What is the difference between Memory and Storage?
 a) Memory is Temporary and Storage is Permanent
 b) Memory is Permanent and Storage is Temporary
 c) Memory is Slow and Storage is Fast
 d) None of the above
13. The fourth generation computers used _____ for circuitry.
14. Coaxial cable is suitable for use in _____ topology.
15. In BUS topology, at each end of the bus is a _____, which absorbs any signal, removing it from the bus.
16. Who designed the first electronics computer – ENIAC?
 a) Van-Neumann
 b) Joseph M. Jacquard
 c) J. Presper Eckert and John W Mauchly
 d) All of above
17. Modern Computer are very reliable but they are not
 a) Fast
 b) Powerful
 c) Infallible
 d) Cheap
18. What is the name of the display feature that highlights are of the screen which requires operator attention?
 a) Pixel
 b) Reverse video
 c) Touch screen
 d) Cursor
19. Which device is used as the standard pointing device in a Graphical User Environment?
 a) Keyboard
 b) Mouse
 c) Joystick
 d) Track ball
20. ALU stands for?
 a) Arithmetic Logic Unit
 b) Arithmetic Logical Unit
 c) Arithmetic Logic Uniform
 d) None of the above