BACHELOR OF MEDICAL LABORATORY TECHNOLOGY
SECOND SEMESTER
FUNDAMENTALS OF COMPUTER SCIENCE
BMLT – 206
[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

(**Objective**)

Time: 30 min.

Marks: 20

Choose the correct answer from the following: 1×20=20

1. Memory management refers to management of
   a. Primary memory
   b. Secondary memory
   c. Both (a) &(b)
   d. None of the above

2. CPU consists of
   a. ALU & Memory
   b. ALU & Control Unit
   c. Control Unit & Memory
   d. All of these

3. Which of the following is responsible for arithmetic and logic operations?
   a. ALU
   b. CPU
   c. Memory
   d. All of these

4. The translator which converts high level language into machine language is called
   a. Assembler
   b. Multiplexer
   c. Compiler
   d. None of these

5. The fastest type of computer is
   a. Mainframe computer
   b. Apple notebook
   c. Super computer
   d. Mini computer

6. Which of the following is a volatile memory?
   a. ROM
   b. RAM
   c. Pen-drive
   d. None of the above

7. The 2's compliment of the number 10101101 is
   a. 01010010
   b. 11010010
   c. 01010011
   d. 11101111

8. The hexadecimal form of the binary number 11111010 is
   a. AF
   b. EA
   c. CD
   d. FA

9. The 1's compliment of the number 10101101 is
   a. 01010010
   b. 11011010
   c. 01011110
   d. 01010011

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10. Which of the following is Universal gate?
    a. AND
    b. OR
    c. NAND
    d. NOT

11. MS word is an example of
    a. System software
    b. Application software
    c. Operating system
    d. None of the above

12. Transistor was used in
    a. 3rd generation of computer
    b. 2nd generation of computer
    c. 1st generation of computer
    d. 5th generation of computer

13. The base of binary number system is
    a. 2
    b. 10
    c. 8
    d. 16

14. The binary form of decimal 7 is
    a. 101
    b. 110
    c. 111
    d. 011

15. Half adder performs binary addition operation of
    a. 1 bit
    b. 2 bits
    c. 3 bits
    d. 4 bits

16. An example of output device is
    a. Keyboard
    b. Mouse
    c. CPU
    d. Printer

17. Which of the followings is known as backup memory?
    a. Primary memory
    b. Secondary memory
    c. Both (a) & (b)
    d. None

18. The decimal form of the binary number $(1010)_2$ is
    a. 7
    b. 8
    c. 12
    d. 10

19. MySQL is an example of
    a. Multimedia software
    b. Web browsers
    c. Word processor
    d. Database software

20. Linux is an example of
    a. Device driver
    b. Application software
    c. Operating system
    d. Memory device

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(Descriptive)

[Answer question no.1 & any four (4) from the rest]

1. Discuss the features, advantages and disadvantages of generation of computers..   **10**

2. What do you mean by operating system? Explain the functions of operating system.   **5+5=10**

3. Explain the different types of memory available in computer.   **10**

4. a. Find the binary equivalent of the decimal number $(80.275)_{10}$.   **3+3+4 =10**

   b. Convert $(11011.111)_2$ into decimal.

   c. Write short notes on different types of computer languages.

5. What do you mean by Universal gate? What are the different types of basic logic gates? Discuss with the help of symbolic representation.   **2+4+4 =10**

6. a. Discuss with the help of block diagram the architecture of computer.   **6+2+2 =10**

   b. Subtract $(12)_{10}$ from $(16)_{10}$ in 1's compliment method.

   c. Subtract $(10)_{10}$ from $(15)_{10}$ in 2's compliment method.

7. What are the different types of computers? Discuss briefly.   **10**

8. Write short notes on the followings: **5+5=10**
   a. Half adder
   b. Half Subtractor

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