2023/06

BA LLB
FOURTH SEMESTER
COMPUTER APPLICATIONS
BLB – 401
[USE OMR FOR OBJECTIVE PART]

SET
A

Duration: 3 hrs.

Full Marks: 70

(**Objective**)

Time: 30 min.

Marks: 20

Choose the correct answer from the following:

1X20=20

1. How to erase data in EPROM?
   a. Using Vacuum tube
   b. Using Transistor
   c. Using Ultra-violet rays
   d. All of these

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

3. Which is the fastest RAM?
   a. SRAM
   b. DRAM
   c. Both
   d. None 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. Which of the following is a volatile memory?
   a. Hard-disk
   b. ROM
   c. RAM
   d. All of these

6. In 4:1 MUX, the number of select line is
   a. 3
   b. 2
   c. 1
   d. 4

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

[1]

10. Which of the following is Universal gate?
   a. AND
   b. OR
   c. NOR
   d. NOT

11. Which of the following mouse operation is used to open a file or program?
   a. Left click
   b. Right click
   c. Double click
   d. Drag and drop

12. Vacuum tube 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. Hybrid computer uses
   a. Digital signal
   b. Analog signal
   c. Both (a) & (b)
   d. None

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

17. Which of the followings can store data permanently
   a. Main memory
   b. Secondary memory
   c. Both (a) & (b)
   d. None

18. The character set used by MICR devices are known as
   a. E31B font
   b. F31B font
   c. E13B font
   d. F13B font

19. Which of the following mouse uses laser rays for the movement of the cursor?
   a. Mechanical mouse
   b. Cord-less mouse
   c. Optical mouse
   d. All of these

20. Which of the following is operating system software?
   a. Windows XP
   b. WinZip
   c. MS word
   d. Antivirus

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(**Descriptive**)

Time : 2 hrs 30 min.   Marks : 50

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

1. What do you mean by Computer memory. What are the various   10
    types of computer memory? Discuss briefly.

2. Perform the following operations: 2.5×4=10
        a. Convert $(100)_{10}$ into Binary.
        b. Convert $(1010110)_2$ into Decimal.
        c. Convert $(1101011111)_2$ into Octal.
        d. Convert $(FA8)_{16}$ into Binary.

3. Define Computer. What are the various types of computer?   10
    Explain briefly.

4. a. Subtract $(10)_{10}$ from $(15)_{10}$ in 1's compliment method.   4+4+2
    b. Subtract $(14)_{10}$ from $(12)_{10}$ in 2's compliment method.   =10
    c. Add: $(1011)_2 + (1011)_2$

5. Explain the features, advantages and disadvantages of generation   10
    of computer

6. a. What do you mean by Universal gate? Design a half adder   6+4=10
       with the help of truth table.

    b. What do you mean by Operating system? Discuss different
       types of software.

7. Write short notes on the followings: 5+5=10
        a. Computer Language
        b. Mouse

8. Write short notes on the followings: 5+5=10
        a. Architecture of computer.
        b. Keyboard.

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