

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

**SET  
A**

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

( Objective )

Marks: 20

*Choose the correct answer from the following:*

*1×20=20*

1. Analog computer uses
  - a. Continuous signals
  - b. Discrete Signals
  - c. 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. Java is an example of
  - a. High level language
  - b. Assembly language
  - c. Machine language
  - d. None of these
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



( 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 types of computer memory? Discuss briefly.   | 2+8=10       |
| 2. Discuss the features, advantages and disadvantages of generation of computers.   | 4+3+3<br>=10 |
| 3. What are the various types of computer? Explain briefly.   | 10           |
| 4. a. Subtract $(10)_{10}$ from $(15)_{10}$ in 1's compliment method.<br>b. Subtract $(14)_{10}$ from $(12)_{10}$ in 2's compliment method.<br>c. Convert $(80)_{10}$ into its binary equivalent. | 4+4+2<br>=10 |
| 5. What do you mean by operating system? Explain the functions of operating system.   | 10           |
| 6. What is Universal gate? What are the different types of basic logic gates? Discuss with the help of symbolic representation.   | 2+8=10       |
| 7. a. Discuss the architecture of computer with the help of block diagram.<br>b. Write short notes on assembler and compiler.   | 6+4=10       |
| 8. Write short notes on the followings:<br>a. Half adder<br>b. Computer language.   | 5+5=10       |

== \*\*\* ==