

Roll No. ....

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**BCA (14-15)//D-15**

**COMPUTER PROGRAMMING AND FUNDAMENTALS**

**PAPER: BCA-111**

Time: Three Hours

[Maximum Marks: 80]

**Note:** Attempt any five questions, selecting one question from each unit. Question No. 1 is compulsory.

1. (a) Differentiate ROM and RAM.  
(b) Make a flow-chart to find Largest of 3 Numbers.  
(c) Differentiate High Level Language v/s Low Level Language.  
(d) Differentiate Computer and Interpreter.

**Unit- I**

2. Draw block diagram of computer and explain essential parts.
3. Define memory and type of memory. Emphasize on primary memory. Discuss storage in Primary Memory.

**Unit-II**

4. (a) Define Hardware and Software. Discuss various type of Software with characteristics.  
(b) Define operating system and prove how it acts as Resource Manager.
5. Write working of:  
(a) Multiprogramming OS  
(b) Time Sharing OS  
(c) Batch Processing OS

**Unit -III**

6. Discuss program Design and Debugging. Explain various type of Errors and Design method lies.
7. (a) Make a flow chart to find Largest of any 10 Numbers.  
(b) Make an Algorithm to add Two 1-D arrays.

#### **Unit-IV**

8. What is searching? Explain Linear and Binary Search with example.
9. Write note on:
  - Programming Language
  - Language Translators.