

Roll No. ....

Total Pages : 03

BCA/D-20

1190

COMPUTER AND PROGRAMMING

FUNDAMENTALS

Paper : BCA III

Time : Three Hours]

[Maximum Marks : 80

**Note :** Attempt *Five* questions in all, selecting *one* question from each Section. Q. No. 1 is compulsory. All questions carry equal marks.

**(Compulsory Question)**

1. Answer the following questions in short :
  - (a) Define the term Computer with Block Diagram. 2
  - (b) What is a Dynamic RAM ? 2
  - (c) Explain the term Application Software. 2
  - (d) What do you mean by Multiprogramming Operating System ? 2
  - (e) What is Debugging ? 2
  - (f) What is a Flowchart ? 2
  - (g) Explain Sorting. 2
  - (h) What is an Assembler ? 2

(5)L-1190

1

### Unit I

2. (a) Classify the Computer according to Size and Power. **8**  
(b) Explain various Computer Generations. **8**
3. (a) Differentiate between Primary Memory and Secondary Memory. **8**  
(b) What is ROM ? Differentiate between EPROM and EEPROM. **8**

### Unit II

4. (a) List various I/O Devices in detail. **7**  
(b) Write short notes on the following : **9**  
(i) Digitizers  
(ii) Plotters  
(iii) Magnetic Media Devices.
5. (a) Difference between Multiprogramming, Multitasking and Multiprocessing Operating Systems. **8**  
(b) How does Operating System act as user interface ? Explain in detail. **8**

### Unit III

6. (a) Differentiate between Testing and Debugging. **8**  
(b) Explain Problem solving in detail. **8**

7. (a) What do you mean by Structured programming ?  
Explain in detail. **8**
- (b) Describe the functions of various Flowchart  
Symbols. **8**

#### Unit IV

8. (a) Explain various types of Searching techniques with  
example. **8**
- (b) Write Algorithm to implement Selection Sort and  
Bubble Sort. **8**
9. (a) Differentiate between Compiler and Interpreter. **8**
- (b) What are the characteristics of High Level  
Language ? **8**

