

Roll No.

Total Pages : 02

GSE/D-22

1161

COMPUTER AND PROGRAMMING
FUNDAMENTALS

Paper : BCA-111

Time : Three Hours]

[Maximum Marks : 80

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

Compulsory Questions

1. (a) Write a short note on memory units. 4
- (b) Differentiate between application software and system software. 4
- (c) Explain the concept of structured programming. 4
- (d) Write a short note on sorting with suitable example. 4

Unit I

2. Define Computer. Explain various components of computer along with a block diagram. Compare the functioning of Computer with human being by taking any suitable example. 16

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P.T.O.

3. (a) What are the applications of computers in various fields ? 8
(b) Explain secondary storage devices. 8

Unit II

4. (a) Define operating system. Explain various functions of operating system. 10
(b) Hardware and software are the two sides of same coin. Elaborate. 6
5. Give the classification of operating systems. Explain with examples. 16

Unit III

6. Explain the concept of flowcharting, algorithm and decision table with suitable examples. 16
7. (a) Write short note on errors, debugging and documentaion. 8
(b) Explain various types of programming methodologies by taking suitable example. 8

Unit IV

8. What is Searching ? Elaborate on different types of searching techniques along with suitable examples. 16
9. (a) Elaborate on the classification of computer languages. 8
(b) Explain compiler, assembler and interpreter. 8