Roll No. ....

Total Pages : 2

GSE/D-21 **1190**

COMPUTER AND PROGRAMMING FUNDAMENTALS
Paper-BCA-111

Time : Three Hours]   [Maximum Marks (External) : 80

Note : Attempt *five* questions in all, selecting *one* question from each unit in addition to compulsory question No. 1. All questions carry equal marks.

Compulsory Question

1. (a) Write short note on classification of computers. (4)
    (b) Elaborate on various types of software. (4)
    (c) Write short note on computer virus. (4)
    (d) Write short note on programming methodologies. (4)

UNIT-I

2. (a) Draw the block diagram of Computer. Explain its components. (8)
    (b) Explain the various memory devices. (8)

3. (a) Explain various applications of computer. (8)
    (b) Differentiate between primary memory and secondary memory along with suitable examples. (8)

UNIT-II

4. (a) Explain the various I/O Devices. (8)
    (b) Explain the functions of operating system. (8)

5. Define operating system. Explain the various types of operating system along with suitable examples. (16)

UNIT-III

6. Explain the various techniques of problem solving with examples. (16)

7. (a) Explain the various types of errors in programming.(8)
    (b) Define flowchart and algorithm. Explain by taking any suitable example. (8)

UNIT-IV

8. (a) Define searching and its types. Explain linear searching along with suitable examples. (10)
    (b) Elaborate on the concept of language translators. (6)

9. (a) Explain various types of computer languages. (8)
    (b) Explain the concept of bubble sorting with suitable example. (8)

————————