

1057

B.A./B.Sc.(General)-2nd Semester**Computer Science**

A02: Computer Fundamentals and C Programming (Old)

Time allowed: 3 Hours

Max. Marks: 65

NOTE: Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question from each Unit.

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UNIT - I

- I. (a) Explain the historical journey of computer along with its applications. (7)
 (b) Draw difference among Assembler, Compiler and Interpreter. (6)
- II. (a) Classify the computers based on their size along with their processing power. (6)
 (b) Write about "Word Processing" and "Multi-lingual Applications" in detail. (7)

UNIT - II

- III. (a) What is operating system? Explain its various types. (2+5)
 (b) Draw difference between LAN and WAN. (3+3)
- IV. (a) Explain various functions of operating system along with example. (7)
 (b) What is Network? Explain various services offered by Internet. (2+4)

UNIT - III

- V. (a) Draw difference between Algorithm and flow-chart. (3+3)
 (b) Explain any three control structures with examples. (7)
- VI. (a) How do you do problem solving and analysis? Explain. (7)
 (b) How expressions are solved using rules of Hierarchy? Explain in detail. (6)

UNIT - IV

- VII. (a) Define function. Explain how parameters are passed to it through C code. (2+5)
 (b) How strings are handled in C? Explain any three operations. (2+2+2)
- VIII. (a) What is the difference between call-by-value and call-by-reference? Explain. (3+3)
 (b) What is array? Explain any C-program to access multidimensional arrays. (2+5)

UNIT - V

IX. Explain the following: -

- (a) Pointers
 (b) Structures
 (c) Unions
 (d) Break and continue statements
 (e) Pseudo code
 (f) Client server systems

(2+2+2+2+2+3)

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