Roll No.

403

Total Pages: 2

BT-2/M-22

42035

PROGRAMMING FOR PROBLEM SOLVING

Paper-ES-105A

Time Allowed: 3 Hours] [Maximum Marks: 75]

Note: Attempt five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

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- 1. (a) Explain working of a computer along with its block diagram in detail.
 - (b) Differentiate between machine, assembly and high-level languages. 7½
- 2. (a) What is a flowchart? Draw a flowchart to find maximum of n numbers. 7½
 - (b) Convert (64.25)₁₀ to binary, octal and hexadecimal numbers.

UNIT-II

- 3. (a) Explain various data types available in 'C'. 7½
 - (b) Discuss different storage classes in C language in brief.
- 4. (a) Describe the various input and output functions in C language using suitable examples. 7½
 - (b) Write a program in C to find roots of a quadratic equation.

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UNIT-III

- (a) What do you understand by function? Explain the various benefits of using functions.
 - (b) Write a user-defined function in C to compare two strings and identify that whether two string are equal. If not, which string is greater?
- 6. (a) Write down a program in 'C' to search a number from a given list of numbers.
 - (b) What is recursion? Write down a recursive program to generate Fibonacci sequence of numbers. 7½

UNIT-IV

- 7. (a) What is a pointer? What are the various operations that can take place on pointers? Explain using suitable examples in brief.
 - (b) Explain advantages and disadvantages of structures and union.
- 8. How can you create and use a file in C language? Write a program in C to read the contents of a file and copy these contents to another file.