

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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B.A./B.Sc. (General) 2nd Semester
(2053)

INFORMATION TECHNOLOGY

Paper : B Computer Programming Using C

Time Allowed : Three Hours]

[Maximum Marks : 65

Note :— Attempt **five** questions in all, selecting **one** question from each of the Units I to IV. Question No. 9 is compulsory. All questions carry equal marks.

UNIT-I

1. (a) What are the steps for a computer based problem solving ?
Discuss each step in brief. 8
- (b) Classify the Computer Programming languages. 5
2. (a) How does the method of stepwise refinement affect the development of an algorithm ? 8
- (b) What is the significance of Program Documentation ? 5

UNIT-II

3. (a) C is a structured Programming language. Justify. 8
- (b) How do you declare and initialize a one dimensional array ? 5
4. (a) Explain the loop control structures available in C program. 8
- (b) What are break and continue statements ? 5

UNIT-III

5. (a) What is recursion ? Explain. Write a recursive function for finding the factorial of a number. 8
- (b) What is a pointer variable ? How do you declare a pointer variable ? Give the Pointer operators and their significance. 5
6. (a) Explain the methods of calling a function. Give examples. 8
- (b) What is an array of Pointers ? How do you create an array of pointers ? 5

UNIT-IV

7. (a) What are macros ? How do they differ from functions ? Explain with examples. 8
- (b) What is a Structure in C ? How is it created ? What is nested structure ? Give example. 5
8. (a) What do you mean by file handling in C ? Explain the following in C with suitable examples :
fopen, fclose, putc, getc 8
- (b) Describe the various Built-in string functions in C language. 5

(Compulsory Question)

9. (a) What is an identifier ?
- (b) What is the use of stdio.h file ?
- (c) What do you mean by Modularization ?
- (d) Give the relational operators in C.
- (e) Define storage class of a variable.
- (f) What are ternary operators in C ?
- (g) What is the purpose of exit() function ? 2×6+1