

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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

1046

INFORMATION TECHNOLOGY

Paper-B : Computer Programming Using C

Time Allowed : Three Hours]

[Maximum Marks : 65

Note : Attempt **five** questions in all by selecting **one** from each of the Sections A, B, C and D respectively. Section E is compulsory.

SECTION-A

1. (a) What do you mean by problem solving ? What are the strategies for problem solving ? 6
- (b) Explain the following terms :
 - (i) Top down design
 - (ii) Stepwise refinement 7
2. (a) Differentiate between a program and an algorithm. 6
- (b) What is Programming Language ? Discuss programming language classification. 7

SECTION-B

3. (a) Explain the basic structure of C program with suitable examples. 6

- (b) What is Data Type ? Discuss basic data types supported by C language. 7
4. (a) Discuss Arithmetic and Relational Operators in detail. 6
- (b) Discuss various control structures of C. 7

SECTION-C

5. What are functions ? Discuss various types of functions supported by C. What are the two methods for passing arguments to function ? Explain. 13
6. (a) What is recursion ? Explain the concept of recursion with the help of calculating factorial of a given number. 6
- (b) Write short notes on the following :
- (i) Pointer and Pointer Arithmetic.
- (ii) Arrays of Pointers. 7

SECTION-D

7. (a) What is Structure ? How is it declared in C program ? How structures are passed to the function ? 6
- (b) What is type def and enumerated data types ? Discuss. 7
8. (a) What do you mean by preprocessor directives ? Discuss with suitable example. 6
- (b) How are files handled using C program ? What are various file accessing functions associated with it ? Discuss. 7

SECTION-E

9. Answer the following in brief.

- (i) Header files in C.
- (ii) What is an array ?
- (iii) What is the use of typecasting in C ?
- (iv) Storage classes in C.

3,3,3,4