

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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Bachelor of Arts (FYUP) 2nd Semester

(2056)

COMPUTER SCIENCE

Paper : Programming in C

(Common with B.Sc. 2nd Sem. FYUP)

Time Allowed : 3 Hours]

[Maximum Marks : 45

Note :- Attempt **one** question each from Sections A to D. Question No. 9 (Section E) is compulsory. All questions carry equal marks.

SECTION—A

1. What is an Algorithm? Explain the characteristics of an algorithm with suitable examples.
2. Explain the structure of C language with a suitable example.

SECTION—B

3. What are various arithmetic and logical operators in C Language? Also discuss the precedence and associativity of operators.

4. How is the Switch Statement different from the if statement? Discuss in detail with suitable examples.

SECTION—C

5. What is the meaning of the term Recursion? Explain recursion through a C program and discuss the corresponding output.
6. What is an Array? Write a program in C to add an element in an array by using the concept of passing an argument to a function?

SECTION—D

7. What do you mean by Pointer data type? What are its advantages and disadvantages? How are pointers declared in C?
8. What is a Structure? What is its use? How to initialize and access structure members?

SECTION—E

9. (1) Flow chart
- (2) How can we run a C program?
- (3) Any four library functions
- (4) Union