

1129
B.E. (Information Technology)
First Semester
IT-102: Programming Fundamentals

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

X-X-X

I. Attempt the following:-

- a) What is meant by global and local variables?
- b) Give an example of a ternary operator.
- c) What is the function of an assembler?
- d) State the function of 'break' keyword.
- e) Define 'formal argument' of a function.
- f) What is call by reference?
- g) State the purpose of #undef directive.
- h) What is the stack data structure and its use?
- i) What is a recursive function and its uses?
- j) What does the function fgetcQ do?

(10x1)

UNIT - I

- II. Write a program to generate all combinations of 7,8 and 9 using looping constructs. (10)
- III. Write a function to obtain prime factors of a given number. (10)
- IV. Describe how various storage classes can be used to control properties of variables. (10)

UNIT - II

- V. Write a program that interchanges the odd and even elements of an array. (10)
- VI. What is the function of a macro? How is this different from a function? (10)
- VII. Write short notes on:-
 - a) Array of structures
 - b) Handling binary and ASCII files(5, 5)

X-X-X