January 2019

Bachelor of Computer Applications (BCA) Essentiality

lst Semester

PROGRAMMING AND PROBLEM SOLVING THROUGH C

ime 3 Hoursl

Mar Harr. 1,

ote: Attempt any two parts from each question. All questions energy equal marks. Assume suitable data, whenever required.

- b(a) What is Algorithm? Draw a flowchart to calculate factorial of a given number.
 - (b) Compare Compiler and Interpreter.
 - Briefly explain classification of Programming Language.
- Compare :
 - Constants and Variable. (i)
 - (ii) Keywords and Identifiers.
 - (b) Explain various primitive data types of C Language.
 - (c) Explain type conversion with suitable example.
- (a) Write a C program to print even numbers between 20 and 50.
 - (b) Write a C program to calculate reverse of given number.
 - (c) Explain hierarchy of logical, arithmetic and relational operators.
 - (a) Write a C program to find minimum and maximum element of 1D array.
 - (b) Explain memory map of 2D array in C. http://www.davvonline.com
 - What is String? Explain any two standard library string function using suitable programming (e) example.
 - (a) How structure are declared and initialized in C? Give uses of structure.
 - (b) Write a C program to store and display information of ten students with fields as Roll No. Name and Class using array of structure.
 - (c) Compare macro and function. Why pragma directives are used?