BA-209

September 2018
Bachelor of Computer Applications (BCA) Examination
Second Semester
BCA-204 : PROBLEM SOLVING AND PROGRAMMING THROUGH C - II

Time 3 Hours]

[Max. Marks 50

Note : Attempt all the questions. Solve any two parts from each question. All questions carry equal marks. http://www.davvonline.com

1. (a) Write a C program to print multiplicative table of given number using a user-defined function.
   (b) Explain and differentiate between call by value and call by reference.
   (c) What do you mean by recursion ? Explain various types of recursion.

2. (a) What is Pointer ? Explain array of pointers using suitable example.
   (b) What do you mean by dynamic memory allocation ? Explain various functions using in C for dynamic memory allocation.
   (c) Compare and contrast between structure and union.

3. (a) What is File ? Compare text and binary mode. Explain various file opening modes.
   (b) Explain console I/O and its types. http://www.davvonline.com
   (c) Write a C program to copy content of one file to another.

4. (a) Explain various video display modes.
   (b) Define the following terms :
       (i) Resolution.
       (ii) Refresh Rate.
       (iii) Frame Buffer.
   (c) Explain color graphics adapter and enhanced graphics adapter.

5. (a) Explain various patterns available to fill a regular shape in C.
   (b) How text is justified in C language in graphics mode ?
   (c) Illustrate how animation can be done in C language.