

July 2014

Bachelor of Computer Application (BCA) Examination

II Semester

Problem Solving & Programming Through C - II

Time : 3 Hours]

[Max. Marks : 50

Note- Attempt all the five questions. All questions carry equal marks.

1. (a) Differentiate between in-build library and user defined function.
 (b) Write a program that contains a function to generate Fibonacci series of given number,

OR

- (a) What do you mean by Recursion ? Explain with an example.
 (b) Write difference between Call by Value and Call by Reference ? Explain with example.

2. (a) Write a program to illustrate the concept of array with pointer.
 (b) What is the role of pointer in the string ?

OR

- (a) Write a program to find factorial of a number using pointer to function.
 (b) Write the major difference between structure and union.

3. (a) What are the various type of files ?
 (b) Write a program to illustrate the concept of writing a single digit to the data file.

OR

- (a) Explain the following : (any five)
 (i) getch () (ii) fwrite () (iii) fgetc ()
 (iv) seek () (v) fprintf () (vi) fopen

- (b) How does append mode differ from a write mode ?
 4. (a) Write note on Display Adapters.
 (b) What are the difference between color in text mode and color in graphic mode ?

OR

- (a) What do you mean by Video Pages ?
 (b) Write note on different components of VDU.

5. (a) Write a program to create circle with blue color.
 (b) What do you mean by designing animations ? Explain.

OR

- (a) How can you draw a line on screen with red colour using graphics programming ?
 (b) How can we fill colour in regular and non regular shapes using C programming ?

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