Exam. Code : 107202
Subject Code : 9141

Bachelor of Computer Application (BCA)

2nd Semester (Old Syllabus–2017)

INTRODUCTION TO PROGRAMMING (C)-II

Paper—I

Time Allowed—3 Hours]   [Maximum Marks—75

Note :— Attempt any **FIVE** questions. All questions carry
    equal marks.

1. (a) What is a string ? Give the difference between call
        by value and call by reference.

    (b) What is a function ? How function is defined ?

2. (a) Explain :

        (i)   register storage class

        (ii) extern storage class.

    (b) Explain void function.

3. (a) How can you access array elements using
        pointers ? Give a suitable example.

    (b) Explain pointer to function in detail.

4. (a) Explain structure and union with syntax. Give difference
        between them.

    (b) Explain nested structure with example.

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5. (a) Differentiate between structure and array.

(b) Distinguish between malloc ( ) and calloc ( ).

6. (a) Explain applications of array. What are the rules used to declare a multi dimensional array.

(b) Explain the pointer arithmetic with examples.

7. (a) Explain the following functions with example :

(i) getche ( )

(ii) putche ( )

(b) Explain conditional operator with example.

8. (a) What are various modes for opening a file ? Explain with syntax.

(b) Write a program to count the number of vowels in a given string.