BCA–204(O)

B. C. A. (Second Semester)
EXAMINATION, May, 2012

(Old Course)

Paper Fourth

COMPUTER PROGRAMMING USING C

Time : Three Hours]   [*Maximum Marks : 75*

Note : Section A is compulsory and carries 10 marks each. Attempt any *eight* questions from Section B and carries 5 marks each and *one* question from Section C of 15 marks.

Section — A

1. What is Pointer ? Write a 'C' program to swap the values of two variables making use of pointers.

2. Write a C program to count total even and odd numbers out of 10 entered numbers.

Section — B

3. What is fundamental difference between built-in-function and user defined function ?

4. Write various data types and storage classes supported in C with example.

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5. What is the use of Bitwise Operator ? Describe any *two* bitwise operators with example.

6. What is the use of 'Switch' Statement ? Write the syntax of 'Switch' Statement.

7. Explain Arguments, Formap Argument and Actual Argument.

8. What do you mean by call by value and call by reference ? Explain with an example.

9. How the macros are defined and called in C ? Explain with example.

10. Write a program in C which inputs ten integers and print their average.

11. Draw the flowchart for finding out largest of given three positive integers.

12. Write a C program to test a given year is leap year or not.

13. How are multidimensional arrays defined ? Compare with one-dimensional arrays.

14. What is the difference between functions and recursion in C language ?

Section – C

15. Write a C program to find out the roots of a quadratic equation $ax^2 + bx + c = 0$ with all validations.

16. Differentiate between the following with examples :

    (a) Arguments and Parameters

    (b) Local and global variables

    (c) Break and Continue statement

    (d) While and do-while

    (e) Switch and if-else

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