BACHELOR OF COMPUTER APPLICATION I YEAR EXAMINATION, 2010

Paper — BCAD-203

PROGRAMMING IN 'C'

Time : 2½ Hours   *Maximum Marks : 70*

(Write your Roll No. at the top immediately on receipt of this question paper.)

Answer all Sections as per instructions given in each Section .

SECTION - A   (1 × 10 = 10)

Answer ALL questions.

Answer in one word/one phrase/one sentence.

1. Write syntax for malloc( ) and calloc( ) library function.

2. What do you mean by a token in C language.

3. Write the format/syntax of ternary operator.

4. How will you define the string ?

5. Define the term recursion.

6. What do you mean by algorithm and program?

P.T.O.

7. What is dot operator ?

8. Write two uses of union.

9. What is the purpose of using fseek( ) function in file handling ?

10. Why do we use break command ?

SECTION - B (6 × 5 = 30)

Answer any SIX questions.
Answers should not be more than three pages.

11. What is Macro ? Discuss with suitable example.

12. Write a program in 'C' language which will read a line of text from a data file character by character and display the text on the screen.

13. What do you mean by linked list ? Also discuss its various advantages.

14. Discuss the differences between Structure and Union.

15. Write a piece of code in 'C' language to explain the concept of pointer to function.

16. Write a program containing a function that alters the value of its argument.

17. Draw the flowcharts for while loop, for loop and do-while loop.

18. What do you understand by unformatted console input/ output functions ?

SECTION - C   (3 × 10 = 30)

Answer any THREE questions.
Answers should not be more than six pages.

19. a) Write a program in 'C' language to find average of a set of numbers.

    b) Write a program to read in a one dimensional character array, convert all the elements to upper case and then write out the converted array.

20. a) What is Function. Explain with suitable example.

    b) Write a program to add two given numbers using the concept of function.

21. Discuss the storage classes in detail

    b) What is pointer to pointer ? Explain with suitable example.

22. a) What do you mean by call by value and call by reference.

    b) What is pointer to pointer ? Explain with suitable example.

23. a) Discuss about the array within structure.

    b) Write a program in 'C' language to input a string and check whether it is palindrome or not.