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Total No. of Questions: 10

Total No. of Pages: 02

MBA (Sem. 3)
PROGRAMMING IN C
Subject Code: MBA-981
Paper ID: C1175

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. Attempt any FOUR questions from Section A. Each question carries FIVE marks
2. There are FOUR subsections in Section B. Attempt any ONE question from every subsection. Each question carries EIGHT marks.
3. Section C is COMPUSORY carries EIGHT marks.

SECTION A

1.

- a) What is Flow chart? Discuss in brief various symbols used in flow chart with suitable example.
- b) Define string? State any four string handling functions with suitable example.
- c) What is function? Is it always mandatory to specify the prototype of function? Justify your answer
- d) What is meant by opening and closing of file? Give the syntax justifying your answer.
- e) Differentiate between break and continue statement. Justify their application with suitable example code of each?
- f) Explain the usage of three dimensional array with suitable example code?

SECTION B

Subsection I

2.
 - a) What are the keywords in C? What restrictions apply to their use?
 - b) How can the number of bytes allocated to each data type be determined for a particular C compiler?
3. What is meant by operator precedence? Give the precedence of arithmetic, logical and relational operators. Give an example of arithmetic expression where precedence plays a significant role?

Subsection II

4. Why do we need functions? Explain in brief different type of functions based on arguments and return value with suitable example of each type?
5. Write a program in C to generate prime numbers between 2 to 100?

Subsection III

6. Write a c program to read a line of text and output the number of words in it.
7. Differentiate between call by value and call by address with suitable example? What does the following statement do?
i) `*ptr+= 1;` ii) `++*ptr;` iii) `(*ptr)++;` iv) `*ptr++;`

Subsection IV

8. Contrast the use of the `fread` and `fwrite` functions with the use of the `fscanf` and `fprintf` functions. How do the grammatical rules differ? For what kinds of applications is each group of functions well suited?
9. a) Define the term file? What are various file access modes? Explain them in brief.
b) What is meant by opening a data file? How is this accomplished?

SECTION C

10. Write a menu driven program that depicts the working of a library. The menu options should be:
 - a) Display book information by entering name of book
 - b) List all books of given author
 - c) List the books in the order of accession number
 - d) Exit

Create a structure called **library** to hold accession number , title of the book, author name, price of the book, and flag indicating whether book is issued or not.