Bachelor of Computer Applications Ist Semester (0027) Examination

0914

PROBLEM SOLVING THROUGH C
Paper : BCA-16-104

Time : 3 Hours]   [Maximum Marks : 65

Note :— Attempt *one* question from each Section and the entire compulsory question. All questions carry equal marks.

Section–A

1. (a) Draw a flow chart for finding the biggest of three numbers.

   (b) Write short notes on the following :

   (i) Decision table

   (ii) Program Debugging   7,6

2. (a) What are the various data types available in C language ? Give the rules for constructing variables.

(b) What are Relational Operators ? How are they used ? List various relational operators used in C. Give example to illustrate your answer.   7,6

Section–B

3. (a) Differentiate :

(i) While and do-While loops

(ii) Local and Global variables

(b) What is the purpose of Switch statement ? What is the role played by break statement within a Switch statement ?   8,5

4. (a) What are user defined functions ? How do you pass arguments to the function ?

(b) What is recursion ? Explain with example.   8,5

Section–C

5. (a) What is an Array ? How do you declare one dimensional and two dimensional arrays ?

(b) Write a C program to add two 5*5 two dimensional arrays.   5,8

6. (a) What is a pointer variable ? How is it declared ? What operations can be performed on pointers ?

(b) What is the significance of malloc ( ) and calloc ( ) functions   8,5

Section–D

7. (a) What are the basic I/O functions that can be performed on files ?

(b) What are nested structures ? Give example.   8,5

8. (a) What are the various built-in String functions available in C language ? Explain.

(b) How are structures different from Unions ?   8,5

Compulsory Question

9. (i) Define algorithm.   2

(ii) What is the purpose of conio.h file ?   2

(iii) What do you mean by keywords ?   2

(iv) List the storage classes available in C.   2

(v) What is Pseudo Code ?   2

(vi) What is strcpy( ) function ?   2

(vii) Give any *two* escape sequences in C.   1