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**BSCCSC 152**

**Credit Based Second Semester B.Sc. Degree Examination, September 2022**

**(2018-19 and Earlier Batches)**

**COMPUTER SCIENCE**

**Paper – II : Programming in C**

Time : 3 Hours

Max. Marks : 80

**PART – A**

1. Answer **any ten** of the following :

**(10×2=20)**

- a) What is the difference between a variable and constant ?
- b) What is the use of sizeof() operator ?
- c) Write the syntax of else if ladder statement.
- d) Name any four keywords in C.
- e) Specify the process of executing a C program.
- f) How do you define symbolic constants ?
- g) How do you initialize array at run time ?
- h) Differentiate between x++ and ++x with example.
- i) How to declare and initialize a pointer variable ?
- j) Differentiate between structure and union.
- k) Define recursion.
- l) How is a file declared ? How a file can be closed ?

**P.T.O.**



## PART – B

**Note :** Answer **one full** question from **each** unit.

**Unit – I**

2. a) What are fundamental data types supported by C language ? Explain it.  
b) What are the different logical operators available in C ? Explain with syntax and example.  
c) Explain scanf() and printf() functions with syntax and example. **(5+5+5)**
3. a) Draw flowchart to find largest of three numbers.  
b) Explain different types of C tokens in C language.  
c) Explain various features of C language. **(5+5+5)**

**Unit – II**

4. a) Explain different types of decision making statements of C.  
b) Explain the use of break and continue statements with examples.  
c) Write a C program to read 'n' numbers and find whether an element exists or not ? If exists, print its position. **(5+5+5)**
5. a) What is meant by looping ? Explain any two looping statements with example.  
b) How do you declare and initialize one dimensional array ?  
c) What is an array ? Explain declaration and initialization of one dimensional array with example. **(5+5+5)**

**Unit – III**

6. a) Differentiate the following with examples :  
i) Actual parameter and formal parameter  
ii) Local and global variables.  
b) Explain the general syntax of a user defined function with arguments and no return value. Give example.  
c) Explain the following storage classes :  
i) Register  
ii) Static **(5+5+5)**



- 7. a) Explain any four string functions with syntax and example.
- b) Explain the different ways to read a string from keyboard.
- c) Write a C program to find the factorial of a number using a recursive function. **(5+5+5)**

**Unit – IV**

- 8. a) What is a structure ? How do you define and access the members of a structure ? Explain with an example.
  - b) What is a macro ? Explain argumented macro with syntax and example.
  - c) Write a note on Pointer. **(5+5+5)**
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- 9. a) What is the primary advantage of using a data file ? What are the different modes of opening a file in C ?
  - b) What do you mean by the following terms ? Give example.
    - i) Nested structures
    - ii) Union.
  - c) Explain the use of the following functions :
    - i) fopen()
    - ii) fprintf()
    - iii) getw()
    - iv) putw(). **(5+5+5)**
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