

2022

B.A./B.Sc.

Fifth Semester

CORE – 12

STATISTICS

Course Code: STC 5.21

(Statistical Computing Using C/C++ Programming)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. (a) Who was the pioneer of C language? Illustrate the basic structure of C language with an example. Give four uses of C language. 1+2+1+2=6
(b) Write a short note on different types of constants and variables in C language. 4+4=8
2. (a) What is an identifier in C language? Give four examples of identifiers. Write down six keywords in C language that cannot be used as an identifier. 7
(b) What are the arithmetic operators in C language? Write a C program to find the addition and multiplication of two integers using variable. 4+3=7

UNIT-II

3. (a) Explain briefly about the formatted input and output functions in C language with an example. 6
(b) What are the decision making statements in C? Explain. 8
4. (a) Write a note on four character input/output functions. 8
(b) What is *if-else* statement in C? Explain with an example. 6

UNIT-III

5. (a) What is the purpose of looping in C language? Write down a note on nested *for* loop. 2+4=6
(b) What is an array? How are one-dimensional and two-dimensional arrays declared and initialized? Give examples. 8
6. (a) Write a note on *while* and *for* loop. 6
(b) Write a C program to add two matrices using arrays. 8

UNIT-IV

7. (a) Explain about the library and built-in function in C with examples. 2+2=4
(b) Differentiate between library and user-defined functions. Write down the advantages of using function. What is void function? 3+4+3=10
8. (a) Write a note on the different storage classes in C language? 6
(b) What are local and global variables? Write a C program to multiply two integers using function. 4+4=8

UNIT-V

9. (a) Write a note on pointer in C language. 6
(b) Write briefly about structure in C programming language with a suitable example. 5+3=8
10. (a) Define pointer with its classifications. 8
(b) How is a structure declared in C language? Illustrate with an example. 3+3=6
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