

**2021**  
**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) What is a compiler? Write about the different data types in C language with examples. 2+6=8  
(b) What are the different types of constants in C language? 6
  
2. (a) Who developed C language? Write some uses of C language. What is identifier in C language? Illustrate with examples. 1+3+2=6  
(b) What are the different types of variables in C language? Write a C program to display “Kohima Science College” using a variable. 5+3=8

**UNIT-II**

3. (a) Write short note on: getchar(), putchar(), printf() and scanf(). 6  
(b) Explain any four decision making statements in C language. 8
  
4. (a) What are the uses of gets() and puts() functions in C? Illustrate with examples. 4  
(b) Explain *if-else* statement in C with an illustration. Write a C program to check whether a voter is eligible for vote in India. 7+3=10

### UNIT-III

5. (a) What is looping? Explain with a diagram. What are the different looping statements in C? 2+2+2=6  
(b) Write a note on *for* loop. Write a program to print 10 natural numbers using *for* loop. 4+4=8
6. (a) What are the jumping statements in C? Explain any two of them. 2+6=8  
(b) Write notes on the different types of arrays used in C with diagrams. 6

### UNIT-IV

7. (a) What is a function in C? What are the different types of functions in C? 3+5=8  
(b) Explain the different steps in writing a function. 6
8. (a) Distinguish between pre-defined and user-defined functions. 6  
(b) Explain all the different category of functions. 8

### UNIT-V

9. (a) What is a pointer in C? What are the advantages of pointers in C? 3+4=7  
(b) What is a structure in C? How is a structure defined in C? 3+4=7
10. (a) How is a pointer assigned to a variable? Write down the rules in using a pointer. 2+4=6  
(b) How is a member of a structure accessed? Explain with an example. 2+6=8