

2019

B.Sc.

3rd Semester Examination

STATISTICS (Honours)

Paper - C 7-T

(Statistical Computing using C/C++ programming)

Full Marks : 40

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any *five* questions out of eight questions carrying 2 marks of each : 2×5=10
 - (a) Define keywords and identifiers. 2
 - (b) Explain arithmetic and logical operators. 2
 - (c) What is fprintf function ? 2
 - (d) What is the function of dynamic memory allocation ? 2

[Turn Over]

- (e) What do you mean by preprocessor directive ? 2
- (f) What is an array ? 2
- (g) Differentiate between looping and branching ? 2
- (h) What is conditional operator in C language ? 2

2. Answer any *four* out of six questions : 5×4=20

- (a) Distinguish between while loop and do while loop in C / C++. Explain with examples. 5
- (b) Differentiate between application software and system software. 5
- (c) What is a user defined function in C / C++ ? Explain some of its properties with examples. 5
- (d) Write a short note on pointers. 5
- (e) Discuss briefly any two conditional operators used in C / C++ with examples of each. 5
- (f) What is a structure used in C ? Explain the use of a structure through a program. 5

3. Answer any *one* question :

10×1=10

(a) Give the basic structure of a C / C++ program.

Write a program in C / C++ to calculate the median of a grouped frequency data. 4+6

(b) Explain the concept of recursion function.

Write a C++ program to find the factorial of a given number. 3+7
