

U.G. 3rd Semester Examination - 2021**STATISTICS****[HONOURS]****Course Code : STAT-H-CC-P-7****(Statistical Computing using C/C++ Programming)(Lab)****[PRACTICAL]**

Full Marks : 50(40+10)

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.**Notations and symbols have their usual meaning.***Answer all the questions.**

1. Write a C program to sort n observations on a variable. Run your program for the following ten observations:

21.4, 32.5, 22.7, 31.3, 41.0, 33.8, 35.5, 17.4, 18.9,
29.2

6

2. Write a C program to generate a random sample of size n from an exponential distribution with mean 20. Run your program for $n = 10$.

7

3. Following are the marks (with full marks 100) in mathematics obtained by 14 and 11 students, respectively, of class X students corresponding to

two schools. Write and run a C program to test at 5% level whether the students of the two schools are equally efficient in mathematics.

68, 49, 51, 45, 77, 37, 35, 46, 50, 51, 68, 66, 55,
34, 55, 67, 86, 77, 95, 81, 80, 91, 64, 73, 87

7

4. Practical Note book 10

5. Viva-voce 10

[Internal Assessment: 10]

[Turn Over]