DOON UNIVERSITY, DEHRADUN

End Semester Examination, Fourth Semester, 2024

Academic Year 2023-24 (Even Semester)

School of Technology, Department of Computer Science

Programme Name: B.Sc. (Generic)

CSG111- Introduction to Data Science

Time Allowed: 2 hours.   *Maximum Marks: 30*

SECTION: A

(Very Short Answer Type Questions)

Q1. What is the role of ethics in data science?   (2)

Q2. What is Customer retention? Give example.   (2)

Q3. What are the tools used in Data visualization?   (2)

Q4. Why is Data visualization important in Data science?   (2)

SECTION: B

(Short Answer Type Questions)

Q1. What do you mean by Feature generation and Feature selection?

What is the role of Filters and Wrappers in this case?   (4)

Q2. What is a Decision Tree? Explain with the help of example.   (4)

Q3. Write all the steps of Data visualization. (4)

SECTION: C

(Long Answer Type Questions)

Q1. What is Dimensionality Reduction? Explain Principal component analysis. (5)

Q2. Explain Random Forests with the help of example. (5)