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FIRST YEAR (Data Science)
24DSC12101: Introduction to Data Science
(Semester II)

Program: (BSc DS10)
Program Specific: BSc(Data Science)
Course Type: Major
Paper: I

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

Q1) Attempt ANY SIX of the following:

[6X2=12]

- a) Define Data Mining.
- b) Design any one property of academic data warehouse.
- c) Give any one real life example of classification.
- d) State any one example of median.
- e) Give real life example of linear regression.
- f) Define variance.
- g) Draw mean of following data.
2,7,9,1,6,33,65
- h) What is the primary key?

Q2) Attempt ANY THREE of the following:

[4X3=12]

- a) Explain various steps of Data Pre-processing.
- b) Discuss the stages of data science project.
- c) Describe different types of primary data collection methods.
- d) What is the need of Data Science in medical field?
- e) What is hypothesis? Explain NULL and alternative hypothesis with suitable example.

Q3) Attempt ANY TWO of the following:

[2X3=06]

- a) Differentiate between qualitative and quantitative data.
- b) State the role that data scientist will perform.
- c) Explain in brief data Acquisition.
- d) Discuss the importance of Model Evaluation.
