

Roll No.

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December, 2019
M.Tech. (CE) 1st Sem.
Data Science (MSC-18-110)

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART - A

1. (a) What are the measures of Central tendency in Statistics? (1.5)
- (b) How does data visualization use database technologies? (1.5)
- (c) How Python is used in Data Science? (1.5)
- (d) Which type of visual aspect would be considered ineffective or not very accurate at conveying quantitative or ordinal data? (1.5)

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- (e) How Retinal Variables useful in Data Encoding? (1.5)
- (f) What is Data science Process? (1.5)
- (g) What are the properties of discrete probability distribution? (1.5)
- (h) Which Tool is best for Data Science? Explain. (1.5)
- (i) Why is Standard Deviation better than Variance? (1.5)
- (j) How Numerical Data differ from Categorical data? (1.5)

PART - B

- 2. Define Data Science. What are the applications of Data Science? Explain in real scenario. (15)
- 3. How data should be analyzed for the combination of Empirical and Normative Approach? (15)
- 4. What are the various data storage and management techniques applied after the collection of data from multiple sources? (15)
- 5. (a) How Data Management is used in focusing the topic of the research? (5)
(b) Explain all the methods for the quantitative data collection. (10)

6. Write short note on :

(a) Linear Regression.

(b) Support Vector Machine.

(3) Naive Bayes Theorem. (15)

7. What is the best software for data visualization? Explain data visualization tools in detail. (15)
