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## First Semester M.Tech. Degree Examination, Feb./Mar. 2022 Data Science

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

- 1 a. Explain Big data and Data Science hype. How to get past the hype? Explain the process of datafication. (10 Marks)
- b. What is data science? Explain the draw conveys Venn diagram of Data Science. (10 Marks)

**OR**

- 2 a. Explain the terms i) data ii) database iii) data warehouse iv) data mining v) data visualization. (10 Marks)
- b. Discuss the concept of 'model' in Data Science. Explain the role of social scientist and statistician in data science. (10 Marks)

### Module-2

- 3 a. Discuss linear regression with suitable example. Explain the evaluation metrics used in linear regression. (10 Marks)
- b. Explain the concept of KNN algorithm. What are the modeling assumptions of KNN algorithm with example? (10 Marks)

**OR**

- 4 a. Explain the concept of K-means algorithm. What is the selection criteria for the selection of K. (10 Marks)
- b. With a multidimensional space, explain the different similarity metrics of KNN algorithm. (10 Marks)

### Module-3

- 5 a. What are the limitations of regression model? And how to overcome them. (10 Marks)
- b. What are the different ways to scrap data from web? Explain different tools used for web scrapping. (10 Marks)

**OR**

- 6 a. Explain the concept of Naive Baye's algorithm with relevant equations and suitable example. (10 Marks)
- b. How decision trees are built? Explain with a case study and relevant statistics. (10 Marks)

### Module-4

- 7 a. Discuss features generation. Describe feature selection using SVD algorithm. What is the need of SVD technique? (10 Marks)
- b. Describe different ways to detect communities in social networks. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written e.g. 42/8 = 50, will be treated as malpractice.

# Phd Question Papers Computer Science

**Tobias Bleicker**



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