Sub Code: KIT-601

Roll No.

B. TECH (SEM VI) THEORY EXAMINATION 2022-23 DATA ANALYTICS

Time: 3 Hours

Total Marks: 100

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A Attempt all questions in brief. 1. $2 \times 10 = 20$ What are the main characteristics of Big Data? Generalize the role of analytical tools in Big data? What are the purposes of regression analysis? What do you mean by fuzzy qualitative model? Define association rule. State the benefits of analytic sandbox. What do you mean by data stream management system? What do you mean by response modeling? What are the benefits of visual data exploration Mention some main goals of Hadoop. Attempt any three of the following Compare and contrast analysis and reporting in data analytics with suitable What is a neural network? How can it be used in analytics? (c) Explain Apriori association rule mining algorithm. List the advantages and disadvantages of K-Means clustering.
What is HDFS? How does it headle Big Date? (e) What is HDFS? How does it handle Big Data? Attempt any one part of the following; 3. What are the various stages in big data analytics life cycle? Illustrate with a 10x1=10figure, explaining each of them. What is the difference between regression modelling and Bayesian modeling?

Attempt any one part of the following:

10x1=10

Explain the role of principal component analysis in neural networks. (b)

What are the parameters used to characterize any fuzzy membership function?

Attempt any one part of the following: (a) Discriminate the concept of sampling data in a stream. 10x1=10(a) Discriminate inc contest.

(b) Illustrate various Real Time Analytics Platforms (RTAPs) with examples. Attempt any one part of the following: 10x1=10(a) Explain the working of CLIQUE algorithm in brief. (b) Identify the major issues in data s'ream query processing. Attempt any one part of the following: 7.

10x1=10

(a) Illustrate and explain the concept of Map Reduce framework in brief.

(b) Write R function to check whether the given number is prime or not?