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Roll No.

TMC-307

M. C. A. (THIRD SEMESTER)

END SEMESTER

EXAMINATION, Dec, 2022

BIG DATA AND VISUALIZATION

Time :Three Hours

Maximum Marks : 100

Notè : (i) All questions are compulsory.

**(ii) Answer any *two* sub-questions among
(a), (b) and (c) in each main question.**

**(iii) Total marks in each main question are
twenty.**

(iv) Each sub-question carries 10 marks.

- 1. (a) What is the Big Data ? Why we need to
analyse Big Data ? What are the technical
challenges of Big Data ? (CO1)**
- (b) What are the characteristics of Big data
application ? (CO1)**

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- (c) Discuss and explain three dimensions of Big data. (CO1)
2. (a) What is the HDFS ? Explain the concept of HDFS. (CO2)
- (b) What is the Map Reduced ? Explain the types and feature of Map Reduce. (CO2)
- (c) Why is Hadoop called a big data Technology ? Explain how it support Big Data ? (CO2)
3. (a) What is the data visualization ? What is its advantage ? Explain visualization's function. (CO3)
- (b) Explain eight hats of data visualization design. Define the physical property data. (CO3)
- (c) Explain the following : (CO3)
- (i) Interactivity
- (ii) Annotation
- (iii) Arrangement
4. (a) Define classification of chart type. Discuss the step to choose appropriate chart type. (CO4)

(3)

- (b) Define following chart with example : (CO4)
- (i) Floating Bar Chart
- (ii) Histogram
- (iii) Sanky diagram
- (c) Explain the chart type showing change over the time with example. (CO4)
5. (a) What is the tableau ? What is the tableau product family ? Explain the feature of tableau. (CO5)
- (b) What are the different connections you can make with your dataset ? Explain the difference between joining and blending in Tableau. (CO5)
- (c) What are Data Extracts ? What are the different filters in Tableau and how are they different from each other ? (CO5)

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