

Roll No.13.....

Exam Code : M-23

Subject Code—59339

B.Sc. EXAMINATION

(Main & Reappear) (Batch 2018 Onwards)

(Fourth Semester)

COMPUTER APPLICATIONS

CCaL-405

Data Analysis

Time : 3 Hours

Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) Differentiate Data Warehouse and Data Mining.
- (b) Discuss Business Intelligence Skills.
- (c) How does decision tree help in decision making ?

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P.T.O.

- (d) What is ANN ?
- (e) Define a cluster.
- (f) What is association rule mining ?
- (g) How is the Big data managed ?
- (h) Explain web mining. 8×2=16

Unit I

- 2. What is Business Intelligence ? How is it different from data analysis ? Explain various tools used for Business Intelligence. 16
- 3. Discuss Data warehousing. What are the basic design considerations required for the implementation of Data warehousing ? 16

Unit II

- 4. (a) Explain the advantages of decision trees.
- (b) Describe the need of tree pruning in decision trees. 16

5. What are the basic design principles of Artificial Neural Networks (ANN) ? Explain the architecture of ANN. 16

Unit III

- 6. What is Cluster ? Explain the methods of clustering. 16
7. Explain Apriori algorithm. 16

Unit IV

8. What is Naïve Bayes classifier ? Explain the Naïve base model. 16
- 9. What is Big Data ? Discuss business and technological implications of Big Data. 16