



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra)

National Highway No.6, JALGAON – 425 002

Phone No.: 0257-2281522

Fax No.: 0257-2281319

Website : www.gcoej.ac.in

E-mail : princoej@redifmail.com



Name of Examination : **Summer 2021** - (Preview)

Course Code & Course Name : **CO452 - Data Warehousing and Data Mining**

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Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

Q.1) Solve any two.

- a) What are the steps involved in knowledge discovery database. [6]
- b) What is mean by outlier? Explain outlier analysis in detail. [6]
- c) Explain major issues in data mining. [6]

Q.2) Solve any two.

- a) Explain design of the data warehouse. [6]
- b) Discuss the various OLAP operations in multidimensional data model. [6]
- c) Explain various for multidimensional data models schemas. [6]

Q.3) Solve any two.

- a) Explain various data reduction techniques. [6]
- b) What is data pre-processing? Explain detail various techniques. [6]
- c) Explain OLAP, ROLAP, MOLAP & HOLAP. [6]

Q.4) Solve all.

- a) How can the efficiency of an Apriori algorithm be improved? [6]
- b) Write an algorithm for FP-Tree construction. Explain how frequent item set are generated from FP-Tree. [6]

Q.5) Solve all.

- a) What is classification? Explain any one classification method. [6]
- b) Explain k-means and k-medoids clustering algorithm. [6]

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