

Term End Examination

Dec 2023

COS2071B - Data Mining and Warehousing

Question Paper ID: 025807

Faculty/School	Faculty of Engineering and Technology	Term	III
Program	SYBCA	Duration	2 Hours 30 Minutes
Specialization		Max. Marks	70

Read the instructions provided for every question properly before attempting the answer.

Section - 1 : contain(s) **10** question(s) and each question carries **10** mark(s). You can answer any **7** questions out of **10**.

Click **Finish** only after completion of the Exam.

Section - 1 (7 X 10 Marks) Answer any 7 questions

1	Illustrate the various components of data warehouse. Explain various architectures of data mining process.	10 marks	CO1, CO2	Understanding
2	Explain the following: a. slice c. multidimensional data model. d. fact table	10 marks	CO2	Remembering
3	Discuss the significance of data preprocessing. Discuss any two methods to handle the missing values in the data.	10 marks	CO2	Understanding
4	Compare the data reduction and data discretization with the help of suitable examples.	10 marks	CO2, CO3	Applying
5	Briefly discuss various Association Rule Mining with respect to frequent item sets.	10 marks	CO2, CO3	Understanding
6	Define the 'training Set' and 'test Set' in a Machine Learning Model? How Much Data Will You Allocate for Your Training, Validation, and Test Sets?	10 marks	CO2	Understanding
7	Explain the Confusion Matrix with Respect to Machine Learning Algorithms.	10 marks	CO2, CO4	Understanding

8	Discuss the False Positive and False Negative and their Significance in Machine Learning classification model development.	10 marks	CO3	Applying
9	Briefly explain the three Stages of Building a Model in Machine Learning	10 marks	CO2, CO3	Understanding
10	Explain the following Performance Measures with the help of suitable examples: 1. Precision 2. Recall 3. F-measure	10 marks	CO3, CO4	Understanding

END OF QUESTION PAPER