PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR
DEPARTMENT OF COMPUTER TECHNOLOGY
ACADEMIC SESSION: 2022-23(EVEN SEMESTER)
Question Bank for CAT-1

Subject : Data Warehousing and Mining(BTCT602T) **Semester** : VI A&B
Subject teacher : Mrs.R.A.Khan/Ms.Shreyanshi Patel **Date of Display** : 16/02/2023
Unit : I, II and III

Course Outcomes:

Upon the succesfull completion of the course, students will be to:

CO1	Explain the data warehousing components, OLAP operations and design a data warehouse for any organization.
CO2	Learn data mining concepts and discuss various techniques for data pre-processing.
CO3	Explore and illustrate different classification and data clusturing techniques.

Q.No.	Questions	Mapping with COs	Marks
1	a)Differentiate between: i) Datamart and metadata ii) OLTP and OLAP	CO1	6
	b)What is OLAP? Define following with example : i) ROLAP ii) MOLAP iii) HOLAP	CO1	8
2	a)Explain in detail the components of Data warehouse system.	CO1	6
	b)Differentiate between Data Warehouse versus Operational DBMS	CO1	8
3	a)What is data model? Explain multidimensional data model in detail.	CO1	8
	b)What are the characteristics of data warehouse?	CO1	6
4	a) Define data warehouse. Draw the architecture of data warehouse and explain the three tiers in detail.	CO1	9
	b) Why Do We Need Data Warehouses?	CO1	5
5	a) As a Bank manager how would you decide whether to give loan to an applicant or not by using DM strategies.	CO1	7
	b) Discuss different OLAP tools.	CO1	7
6	a) What are major components of a typical data mining? Draw architecture of data mining system and explain it.	CO2	7
	b) Explain data mining functionalities in detail.	CO2	6
7	a)Explain various major issues and challenges in data mining in detail.	CO2	7
	b) Discuss: i) Data cleaning ii) Data integration	CO2	6
8	a)Explain Data preprocessing in detail.	CO2	7
	b) Describe the steps involved in data mining when viewed as a process of knowledge discovery.	CO2	7
9	a)Write any two applications of data mining.	CO2	7
	b)Explain the concept Hierarchies in detail using example.	CO2	7
10	a) Enlist various types of data in cluster analysis.	CO3	7
	b) Explain tree induction algorithm for building decision tree.	CO3	7
11	a)Discuss typical requirements of clustering in data mining	CO3	5
	b) Explain k-means algorithm.	CO3	9

Mrs.R.A.Khan /Ms.Shreyanshi Patel
Subject Teacher

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