

Roll No. \_\_\_\_\_

Code No. PCS-102

# **SIXTH SEMESTER EXAMINATION 2021-22**

**Class - B.C.A.**

**Subject - Data Mining & Warehousing**

Time : 2.30 Hrs.

Max. Marks : 80

Total No. of Printed Page : 04

Mini. Marks : 28

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**Note:-** Question paper is divided into three sections. Attempt question of all three sections as per direction. Distribution of Marks is given in each section.

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## **Section - 'A'**

**Attempt any two question from each unit.**

**Each question carry two marks (word limit 30 words)**

10x2=20

### **Unit - I**

1. What is data warehousing ?
2. What is Metadata ?
3. What is need of data warehousing ?

### **Unit - II**

4. What do you mean by data extraction ?
5. What do you mean by data quality ?
6. What is data dimensional modeling ?

(2)

### **Unit - III**

7. What is data preprocessing ?
8. What do you mean by data cleaning.
9. What is data reduction.

### **Unit - IV**

10. Why we use data Mining ?
11. What do you mean by transactional data.
12. What is cluster Analysis.

### **Unit - V**

13. What is Temporal Mining ?
14. What do you mean by query language.
15. Define content mining ?

### **Section - 'B'**

**Attempt all questions.**

5x6=30

**Word limit 60 words.**

### **Unit - I**

16. Explain Basic elements of data warehousing ?

OR

Write difference between operational database system & data warehouses.

(3)

## **Unit - II**

17. Explain dataware house models & its development process.

OR

What is data cube ? Explain with example.

## **Unit - III**

18. Explain physical design process of data warehouse.

OR

What do you mean by datawarehouse uses for information processing.

## **Unit - IV**

19. Explain association rule of data mining.

OR

Explain various types of data mining techniques.

## **Unit - V**

20. Explain following :

(a) Spatial Mining

(b) Temporal Mining

OR

Describe architecture of data mining system.

## **Section - 'C'**

**Attempt any two question.**

**Each question carry 15 marks.**

**2x15=30**

(4)

## **Unit - I**

21. Explain project planning & management of data warehouse. Describe architecture of data warehouse.

## **Unit - II**

22. Explain star, snowflakes and fact constellations schemes for multidimensional data models of data warehouse.

## **Unit - III**

23. What is OLAP in data warehouse ? Explain typical OLAP operations with diagram.

## **Unit - IV**

24. What is KDD process in data mining ? Explain with diagram.

## **Unit - V**

25. Explain following : (any two)
- (a) Web structure mining
  - (b) Data generalization & summarization based characterization
  - (c) Data Mining Primitives.

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