	K24U 0187
Reg. No.:	10. Differentiate between hierarchical crossinnes
Name :	1001
A STATE OF THE STA	11 What is the relationship between the HAD to the Annual Island to the
Sixth Semester B.C.A. Degree (C. Supplementary/Improvement)	Examination, April 2024
Discipline Specific	1.3. What is the significance of decis (enoissim
	14. Define the foll <b>QUISUOHARW ATAU ON</b>
Time : 3 Hours	Max. Marks: 40
20. Explain partition algorition	ii) Splitting criterion.
PART -	
(Short Answ	ver) (a)
Answer all questions. 1 mark each.	Answer (6=1×6) estions/3 marks each
1. What makes a data warehouse "subject-ori	15. How does a data cube enhance to? "batne
Define the term 'Data Mining'.	multidimensional data model?
of postupo to boil and we have the	[5+1+5] 16. Explain the categories of summan, may un
3. What does 'rough set' refer to?	function used.
4. Name the two closure properties exhibited	17. Describe the following data making floor
5. What is the role of the pruning step in the a	priori algorithm ? lebom noiteoitneV (i
6. Differentiate between a training set and a te	ii) Discovery model
ni enoitsoilgas ofitneise aritmini PART – E	18. Detail the various types of data managed w
(Short Essa	nontrice sten
Answer any 6 questions. 2 marks each.	19. Explain the concept of confidence and supplied (\$2=\$\cdot 2\$)
7. Differentiate between KDD and data mining	20. Define the following in the context of DBSC
	i) s - Neighborhood of an object
8. Identify the fundamental goals of data minir	in core onlear
9. Define the association rule.	

P.T.O.

P.T.O.

# PART - D (Long Essay)

Answer any 2 questions. 5 marks each. (2×5=10)

- 21. Illustrate the following warehouse schema.
  - i) Star schema
  - ii) Snow flake schema
  - iii) Fact constellation.

[2+2+1]

- 22. Explain partition algorithm.
- 23. Elaborate on PAM, a k-Medoid algorithm.
- 24. Briefly describe the following decision tree construction algorithms :
  - i) CART
  - ii) ID3
- iii) CHAID.

[2+1+2]

- 8. Identify the fundamental goals of data mining.

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K23U 0446

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VI Semester B.C.A. Degree (C.B.C.S.S. – OBE – Regular/Supplementary/
Improvement) Examination, April 2023
(2019 and 2020 Admissions)
Discipline Specific Elective
6B20BCA-E01 : DATA MINING AND DATA WAREHOUSING

Time: 3 Hours

Max. Marks: 40

#### PART - A

Answer all questions. Each question carries 1 mark.

- 1. What is a database maintained separately from an organizations operational database called as ?
- 2. What is decision tree used for ?
- 3. Expand CART.
- 4. Write an example for categorical clustering.
- 5. What is entropy?
- 6. Which association rule mining algorithm is suited for transaction databases with frequent updates?

PART - B

Answer any six questions. Each question carries 2 marks.

- 7. Define association rule.
- 8. What are frequent episodes?
- 9. What is prediction?
- 10. What is meant by support of an itemset?
- 11. What is the main difference in Pincer-search algorithm compared to Apriori algorithm?

### K23U 0446

- 12. What is a verification model?
- 13. What is temporal data mining?
- 14. What is a core object in DBSCAN?

#### PART - C

Answer any four questions. Each question carries 3 marks.

- 15. Describe the subject-oriented feature of data-warehouse.
- 16. Write notes on problem decomposition.
- 17. Describe data refresh.
- 18. Differentiate upward closure property and downward closure property.
- 19. List all the stage in KDD.
- 20. Differentiate hierarchical and partitioning clustering methods.

# PART - D

Answer any two questions. Each question carries 5 marks.

- 21. Write notes on DBSCAN and the concepts introduced by it.
- 22. Compare C4.5 and CHAID.
- 23. Describe the difficulties in data mining.
- 24. Describe star schema.

K22U 0346

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# VI Semester B.C.A. Degree (CBCSS – OBE – Regular) Examination, April 2022 (2019 Admission)

# **Core Course**

# **Discipline Specific Elective**

**6B20BCA-E01: DATA MINING AND DATA WAREHOUSING** 

Time: 3 Hours

Max. Marks: 40

# PART – A (Short Answer)

Answer all questions:

(6×1=6)

- 1. What is Data mining?
- 2. Expand OLAP.
- 3. What is a Decision Tree?
- 4. Expand ID3.
- 5. What is KDD?
- 6. List any two advantages of Data Warehouses.

PART – B (Short Essay)

Answer any 6 questions :

 $(6 \times 2 = 12)$ 

- 7. What is Web Mining?
- 8. What is CLARA?
- 9. What are frequent itemsets?
- 10. Define support in Association rules.

P.T.O.

### K22U 0346



- 11. Give four application areas of Data Mining.
- 12. What is Data Preprocessing?
- 13. What is a Data Warehouse?
- 14. How does Pincer Search overcome the disadvantage of Apriori algorithm?

# PART – C (Essay)

# Answer any 4 questions:

 $(4 \times 3 = 12)$ 

- 15. What is Data Visualization?
- 16. Explain about Spatial Mining.
- 17. What are partitioning algorithms?
- 18. Explain hierarchical clustering.
- 19. Explain the limitations of the Apriori algorithm.
- 20. Describe briefly the stages of KDD.

# PART – D (Long Essay)

# Answer any 2 questions:

 $(2 \times 5 = 10)$ 

- 21. Explain the k-Medoid algorithm.
- 22. Describe briefly the C4.5 algorithm. How does it differ from ID3?
- 23. Discuss the challenges faced in Data Mining.
- 24. Explain the various OLAP operations.