



C14-CM-503

4626

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**MARCH/APRIL—2017**  
**DCME—FIFTH SEMESTER EXAMINATION**  
**ADVANCED DATABASE SYSTEMS**

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

3×10=30

**Instructions** : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. List any three transaction properties.
2. What is uncommitted data?
3. List any three components of DDBMS.
4. Define SPSP.
5. What is meant by fragmentation?
6. Define protocol.
7. List any three features of OODBMS.
8. What is data warehousing?
9. What is star schema?
10. What is mining frequent pattern?

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**PART—B**

10×5=50

- Instructions** : (1) Answer *any five* questions.  
(2) Each question carries **ten** marks.  
(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11.** Explain concurrency control problems with examples.
- 12.** Explain the following : 5+5  
(a) Distribution transparency  
(b) Transaction transparency
- 13.** Explain the advantages and disadvantages of data replication. 5+5
- 14.** Classify objects and explain each of them. 5+5
- 15.** Explain inter-object relationship with examples.
- 16.** Explain Decision Support Systems (DSS).
- 17.** Explain OLAP architecture.
- 18.** Explain the following data mining functionalities :  
(a) Classification and prediction  
(b) Cluster analysis

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