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C14-CM-503

4626

BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2017
DCME—FIFTH SEMESTER EXAMINATION
ADVANCED DATABASE SYSTEM

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. What is a transaction with reference to a database? List various states of a transaction. 1½+1½
2. What is transaction log? 3
3. List any three functions of distributed database management system. 3
4. What is data replication? 3
5. List any three advantages and disadvantages of data fragmentation. 3
6. What is a class? Give an example. 2+1
7. Write about object schema. 3
8. Define data warehouse. 3

* 9. Write any three comparisons between ROLAP and MOLAP. 3

10. Define data mining. 3

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 the following with reference to a transaction with an example each : 10

(a) Lost updates

(b) Uncommitted data

12. Explain twelve commandments of DDBMS. 10

13. What is the data fragmentation? Explain any three types of data fragmentation strategies. 10

14. Explain the features of an OODBMS. 10

15. Explain inter-object relationship with an example. 10

16. Explain about decision-support system. 10

* 17. Explain star-schema with an example. 10

18. Explain data mining functionalities. 10
