LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

SECOND SEMESTER – APRIL 2017

CS 2828- ADVANCED DATA BASE SYSTEMS

Date: 03-05-2017   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

Section – A
Answer all Questions   **(10 X 2Marks)**

1. Define a database management system.
2. What are the tuples and attributes?
3. What is a View?
4. Write a query for creating a relation.
5. What is a Trigger?
6. Define functional dependency.
7. What is serializability?
8. What is a dead lock?
9. Define the two types of distributed databases.
10. List any four uses of data mining.

Section – B
Answer all Questions(5 X 8 = 40 Marks)

11. a) Explain the structure of a Database Management System

    OR
    b) Explain the E-R Model
12. a) Describe the Relational Model

    OR
    b) What are the integrity constraints? Explain them.
13. a) Write a note on nested queries.

    OR
    b) Give short notes on aggregate operators.
14. a) Explain the query processing procedure for SELECT query.

    OR
    b) What are the methods of avoiding deadlock? Explain.
15. a) Discuss about parallel databases.

    OR
    b) Explain Knowledge Discovery in a Database.

Answer any TWO Questions(2 X 20 = 40 Marks)

16. a) Compare and contrast file systems and database management systems

    b) Explain different operations on a database using relational algebra.

17. a) Explain first, second and third normal forms with an example.

    b) Discuss about concurrency control mechanisms.

18. a) Discuss about distributed databases.

    b) Explain the spatial databases.

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