



B.E DEGREE EXAMINATIONS: JUNE 2015

(Regulation 2009)

Fifth Semester

COMPUTER SCIENCE AND ENGINEERING

CSE115:Advanced Database Technologies

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Name the DDBMS that consists of a single logical database that are splitted
 - a) fragments
 - b) segments
 - c) separators
 - d) splitters
2. Choose an interconnected collection of autonomous computers that are capable of exchanging information
 - a) gateway
 - b) MDBS
 - c) network
 - d) DDBMS
3. Select the database feature that restores the data when a system fails
 - a) buffer manager
 - b) recovery manager
 - c) transaction manager
 - d) scheduler
4. Recall the distributed database that built on oracle
 - a) database links
 - b) deramhome
 - c) connectivity
 - d) transactions
5. How many types of polymorphism are there?
 - a) 1
 - b) 3
 - c) 2
 - d) 4
6. Which of the following is an unordered collection of elements that may allow duplicates?
 - a) set
 - b) bag
 - c) list
 - d) dictionary
7. Which are used to assign a name to a type in certain contexts?

22. a) i) Outline two phase commit protocol with neat sketch. (7)
ii) Discuss the functionality required for replication server. (7)

(OR)

- b) Explain in detail about R* algorithm and SDD-1 algorithm in distributed query optimization.

23. a) Rephrase the weakness of RDBMS and explain in detail.

(OR)

- b) Construct the issues in OODBMSs, illustrate them suitable example.

24. a) (i) Develop a model driven architecture. (5)
(ii) Represent ODL and draw a neat sketch for simplified property for rent schema for Dream Home. (9)

(OR)

- b) Compare and contrast ORDBMS and OODBMS. Explain each of its unique features with suitable examples.

25. a) Explain about the following:

- i) Deductive DB (7)
ii) Spatial DB (7)

(OR)

- b) Discuss in detail about multimedia databases. Illustrate any two applications, where it is used?
