

(Please write your Exam Roll No.)

Exam Roll No. 215

# END TERM EXAMINATION

THIRD TRIMESTER [MBA] DECEMBER - 2012

Paper Code: MS 239/MSP 329/BMS 539

Subject: Database Management Systems

Time : 3 Hours

Maximum Marks : 60

Note: Attempt any five questions. All questions carry equal marks.

Q. 1 Explain the architecture of DBMS using the diagram. What are the advantages of this architecture over the traditional file architecture? 12

Q. 2 Compare the various types of DBMS stating the advantages and disadvantages of each type of DBMS. 12

Q. 3 a) Explain using an example how ER diagram can be converted into Tables. 8

b) Define the following: 1x4=4

- i) Primary Key
- ii) Candidate key
- iii) Alternate Key
- iv) Composite Key

Q. 4 a) Explain the concept of Referential Integrity using an example. 5

b) What are views? What problems are faced when we update them? 7

Q. 5 Draw an E-R diagram of a database showing the fatherhood, motherhood and spouse relationship among men and women. 12

Q. 6 a) What is PL/SQL? What are the advantages of PL/SQL. 4

b) What are 'Triggers'? Explain their usefulness in databases. 4

c) In pl/sql functions what is use of out parameter even though we have return statement. Explain. 4

Q. 7 a) What is meant by 'Normalization'? Explain the concept of Functional Dependency. 6

b) Explain the following: i) Multivalued dependencies, ii) Join Dependencies 6

Q. 8 a) What are ACID properties for the integrity of data during transactions. Explain. 6

b) Explain the concept of concurrency in databases. How the problem can be resolved? Describe. 6

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