

Krishna Kanta Handiqui State Open University
MCA 4th Sem. Examination, 2014

Database Management System Paper - 13 (Theory)

Time : 2 Hrs.

Full Marks : 50

1. Answer any five from the following questions 2×5 =10
(each within 50 words)
- (a) Explain the word 'database' with example.
 - (b) Explain binary relationship used in DBMS.
 - (c) Explain the concept of Entity with real world example.
 - (d) What is primary key? Explain with example.
 - (e) Explain Functional Dependencies with example.
 - (f) What is the use of multi level security.
 - (g) Define database audit.
2. Answer any two from the following questions 4×2 =8
(each within 100 words)
- (a) Explain the advantages of DBMS.
 - (b) What are the different types of attributes? Explain.
 - (c) Define referential and entity integrity.
 - (d) What is Functional Dependency? Explain 2NF with example.
3. Answer any two from the following questions 6×2 =12
(each within 250 words)
- (a) Describe ACID properties of a transaction
 - (b) Explain the responsibilities of DBA.
 - (c) Explain the steps required for designing a good database.

(d) What is join? Explain with examples.

4. Answer any two from the following questions 10×2 =20
(each within 400 words)
- (a) Explain the three-tier architecture of DBMS.
 - (b) What is attribute? Explain different types of attributes used in ER model.
 - (c) What is the need of normalization? Discuss 3NF and BCNF with suitable example.
 - (d) What is transaction? Write some examples of transaction. Explain the concept of transaction with the help of commit and Rollback operations.