

B.Sc. (Regular) DEGREE EXAMINATION, MARCH 2009.

(Examination at the end of Third Year)

Part II – Computer Science

Paper III – Modern database Management

Time : Three Hours

Maximum : 100 Marks

SECTION A – (3 X 20 = 60 MARKS)

Answer any **THREE** questions.

1. (a). Explain the purpose and deliverables of SDLC each Phase.
(b) Write a note on computers in database system environment.
2. (a). Explain relationships of different degrees with examples.
(b). Explain cardinality constraints along with examples.
3. (a). Explain how to transforming EER diagrams into relations.
(b). what are the advantages and disadvantages of horizontal and vertical partitioning.
4. (a). Describe the components and structure of a typical SQL environment.
(b). Explain the Triggers and Routines with examples.
5. (a). Explain three – tier Client/ Server architecture.
(b). Explain the role of data and database administrators.

SECTION B – (4X 5 = 20)

Answer any four of the following.

6. What are the advantages of database approach?
7. Explain strong and weak entity types with examples.
8. Explain integrity constraints with examples.

9. Explain BCNF with Examples.
10. What is the role of the mainframe in client/server database environment?
11. Write a short note on managing data quality.

Section C – (10 x 2 = 20)

Answer ALL the following.

12. Define the conceptual schema.
13. Define the referential Integrity.
14. Define Normalization.
15. Define Logical Database design.
16. What is a data dictionary?
17. Write the syntax of INSERT command.
18. What is a Server?
19. What is a relationship?
20. What is database security?
21. What is a Recovery Manager?