

1126

B.A./B.Sc. (General) Fifth Semester
Computer Science

Paper – A05: Business Data Processing and Database Management Software

Max. Marks: 65

Time allowed: 3 Hours

NOTE: Attempt five questions in all, including Question No. IX (Section-E) which is compulsory and selecting one questions each from Section A-D.

x-x-x

Section – A

I. Differentiate between file oriented approach and database approach highlighting applications of each type. (13)

II. Compare and contrast hierarchical, Network and relational model with suitable example. (13)

Section – B

III. Explain union, Intersection, Projection and Cartesian product operations of relational algebra with examples. (13)

IV. Explain entity integrity and referential integrity constraints. Discuss with suitable examples the significance and usage of Grant and Revoke privileges. (13)

Section – C

V. Create a table named customer with the fields Id, Name, City, Address, Phone_number with valid constraints associated with each field. Insert records in the table (multiple records with one command). Write a SQL statement to find all those customers with all information whose names are ending with the letter 'n'. (13)

VI. Explain the following with example:-

- a) Aggregate functions
 - b) Arithmetic functions
 - c) Data functions
- (13)

Section – D

VII. Write notes on the following:-

- a) Backup and recovery of databases
 - b) Database security and privileges
- (13)

VIII. What are views? How are these different from tables? Explain inline and materialized views with suitable code. (13)

Section – E

- IX. a) List features of client server architecture. (2)
- b) Define ER Models. (2)
- c) What is the significance of commit command? (2)
- d) How indexes are created in SQL. (2)
- e) List character functions used in SQL. (2)
- f) Write a note on anomalies. (3)

x-x-x