BCA (Sem. - 4ᵗʰ)

DATA BASE MANAGEMENT SYSTEM

SUBJECT CODE : BC - 402(N2)

Paper ID : [B0216]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours   **Maximum Marks : 60**

Instruction to Candidates:

1) Section - A is **Compulsory**.

2) Attempt any **Four** questions from Section - B

Section - A

Q1)   *(10 × 2 = 20)*

a) Give example using SQL for the retrieval using union.

b) What is serialisability of a data base.

c) Explain the insert statement of SQL with example.

d) Explain the update statement of SQL with example.

e) What is a data base.

f) How schema is different from subschema.

g) What is function dependency.

h) What is Two Phase Commit Protocol.

i) What are the log files.

j) What are the primary and secondary keys.

(4 × 10 = 40)

Q2) Explain the role of DBA in a data base environment. What are the responsibilities of DBA.

Q3) Consider the database of a department store as follows.

(a) Each employee is represented. The data about an employee are his employee number, name, address, and the department he works for.

(b) Each department is represented. The data about departments are its name employees, manager, and items sold.

(c) Each item sold is represented. The data about items are its name, manufacturer, price, model and internal item number.

(d) Each manufacturer is represented. The data about a manufacturer are its name, address, item supplied, and price.

Give an E-R diagram for this database.

Q4) What are the various objective of a data base system. Explain the architecture for a distributed data base.

Q5) What is the normalisation in relational data base model. Explain them with example.

Q6) What are the various advantages of data bases over the file system.

Q7) What is the full syntax of "SELECT". Explain with an example.

⌘ ⌘ ⌘ ⌘