SEI ET [TIT (R) 3015/13 GUI, DBM. GS-6543

(c) DBA

(e) EER model.

(d) Murphy's law of GUI design

Con. 6614-13. (3 Hours) Total Marks: 100 Question No. 1 is compulsory. (2) Solve any four questions out of remaining six questions. 10 (a) What is the role of a DBMS, and what are its advantages? 10 Explain in detail in built control and Active-x control in VB. 10 Explain the following terms with example: an entity a weak relationship (iii) a strong relationship a recursive relationship. 10 (b) Use the small database shown in figure (1) and answer the questions:— Identify the primary keys Identify the foreign keys Create the Entity Relationship Model (ERM) (iii) Create the relational database. Table name: Student Stud_DOB Stud_no Stud_name 15-8-90 10 Bhuvi 26-1-92 Dhriti 5-9-95 12 Shree Table name: Subject Sub code stud no sub name 301 IT Th **DBMS** 302 IT Th **OOPS** 303 IT Th AT figure 1 small 304 IT Th database М-Ш 10 305 IT Pr **DBMS** OOPS 306 IT Pr 307 IT Pr AT **10** Describe two-phase locking protocols and graph based protocols. 10 (b) Explain the use of logs and check points for recovery in a database. 10 Explain the terms ODBC and OLEDB. What are the features of GUI? Explain decision making statements and loop structures 10 statements in VB. What do you mean by deadlocks in database system? Explain the techniques for 10 deadlock prevention and deadlock detection. (b) Why trasaction processing systems usually allow concurrent executions? Give 10 reasons. 10 What do you mean by a virtual table or a view. What are its characteristics? 10 Write a note on relational algebra. 20 7. Write short notes on (any four):— (a) ACID properties (b) OODBMS and ORDBMS