**R09** Cöde No: R09220502 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD B.Tech II Year II Semester Examinations, May-2013 **Database Management Systems** (Common to CSE, IT) Time: 3 hours Max. Marks: 75 Answer any five questions All questions carry equal marks 1.a) Compare the database system with file system. What is meant by storage manager? Discuss about DML. ... ....b) 2. Construct an E-R diagram for a car-insurance company that has a set of customers, each of whom owns one or more cars. Each car has associated with it zero to any number of record accidents. [15] State various fundamental operations in the relational algebra and explain them 3... [15] with suitable examples. 4.a) Explain the logical connectivities in the SQL. Discuss about complex integrity constraints in SQL triggers. [15] b) ...5 \*\*\* \* \* \* \* Explain clearly the lossless join decomposition, dependency preserving decomposition. Give suitable example to each of them. [15] 6. [15] Explain the lock based protocols and time stamp based protocols. Discuss "clearly about recovery with concurrent transactions. Give suitable example: [15] 8.a) Discuss about indexed sequential access methods. b) Compare the hash based indexing and tree based indexing. [15] ---00000---