SET A

## NEW SUMMIT COLLEGE

Shantinagar, Kathmandu

## PRE-BOARD EXAMINATION-2080

Bachelors in Business Management COM 312- DBMS Full Marks: 40 Time: 3 hours

Semester: VI (1x5 = 5)Group A workson Very Short Answer Questions 1. What is data governance? . Define weak entity. What is Primary key? What is decomposition? Define lossy decomposition. What is schedule. Can non-serial schedule is serializable? Justify. **Short Answer Questions** (5x3 = 15)Attempt All questions. 6. Discuss the advantages of DBMS over file system. 7. What is a view in SQL and how it is defined? List advantages of view. 8. Consider a relation schema R (A, B, C, D) with the following functional dependencies  $(A \rightarrow B, B \rightarrow B, B$  $C,C \rightarrow D,D \rightarrow B$ ). Determine whether the decomposition of R into R1 (A, B), R2 (B, C) and R3 (B , D) is lossless or lossy. Atomicity, Comer cent , I solation, Decomposition. 9. Discuss about ACID properties in transaction management 10. Define trigger and Assertion with suitable syntax. Group C Long Answer Questions (2x10 = 20)Attempt all questions. 11. What is Normalization? Describe need of normalization. Explain 1NF,2NF and 3NF with suitable examples. The doctory repetation of data, making the database, system taster, consider the following supplier database, where primary keys are underlined. select \* from supplier JoIN.

Select \* from supplier JoIN

select \* from from lands. Select Part-name Supplier (supplier-id, supplier-name, city) Supplies (supplier-id, part-id, quantity) Parts (part-id, part-name, color, weight) Construct the following relational algebra and SQL queries for this relational database select. to hom. a Find the name of all suppliers located in city "Kathmandu". b. Find the name of all parts supplied "ABC Company". c. Find the name of all parts that are supplied in quantity greater than 300. d. Find the number of parts supplied by "ABC Company" e. Find the name of all suppliers who supply more than 30 different parts.