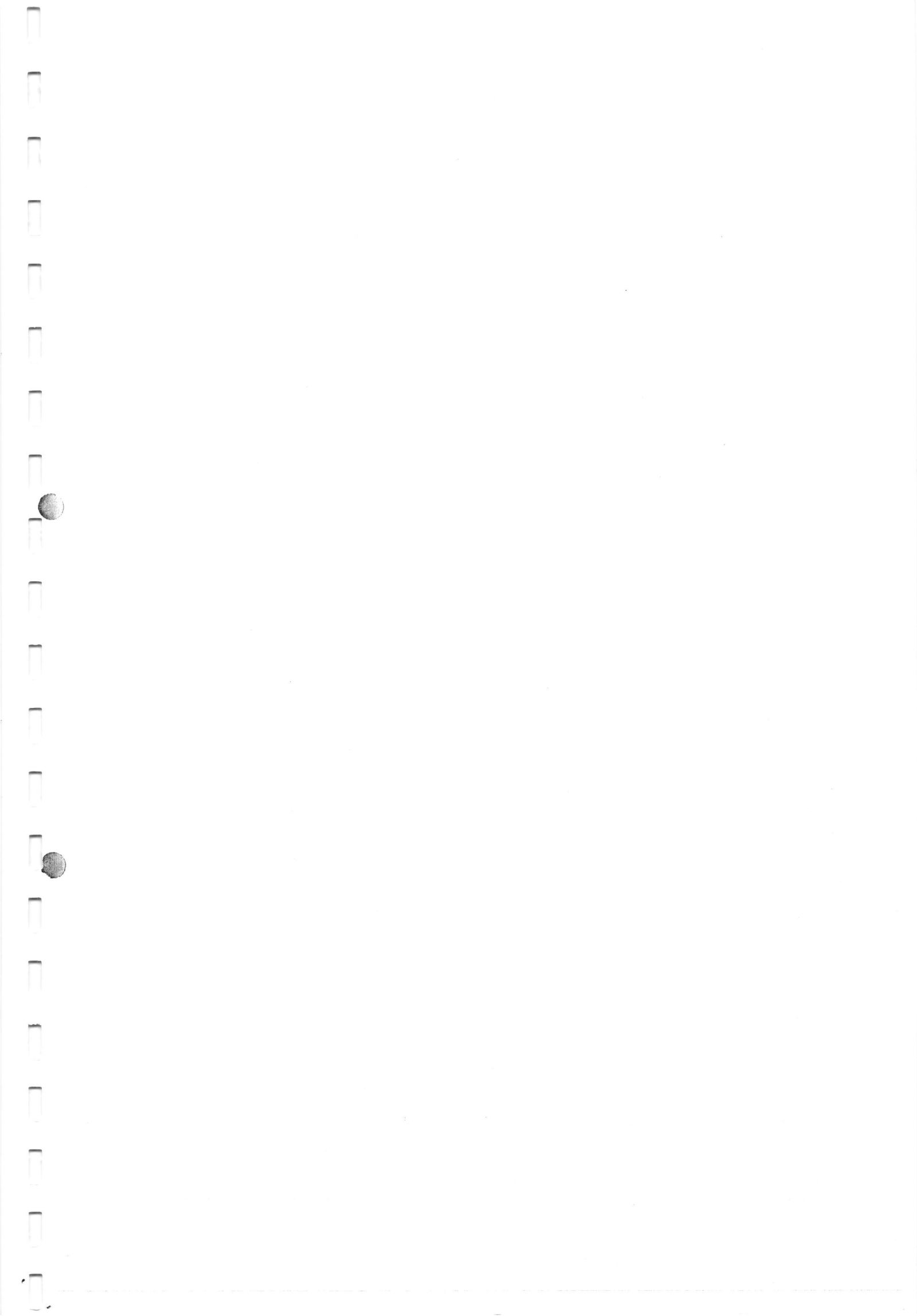






18. What SQL command can be used to delete columns from a table?  
 MODIFY TABLE TableName DROP COLUMN ColumnName  
 MODIFY TABLE TableName DROP ColumnName  
 ALTER TABLE TableName DROP COLUMN ColumnName  
 ALTER TABLE TableName DROP ColumnName
19. In a \_\_\_\_\_ index, the index must store a list of pointers to all records with the same search-key value.  
 dense clustering  dense non-clustering  
 sparse clustering  sparse non-clustering
20. Which of the line will produce error in the following query?  
Line1: Create Table students  
Line2: (roll\_no int not Null,  
Line3: std\_name varchar2 (20) unique,  
Line4: std\_dob date,  
Line5: Primary key (roll\_no) );  
 Line 2  Line 3  Line 4  Line5



KATHMANDU UNIVERSITY  
End Semester Examination  
March/April 2017

APR 09 2017

Level : B.Sc.  
Year : II  
Time : 2 hrs. 30 mins.

Course : COMP 232  
Semester: II  
F.M. : 40

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SECTION "B"  
[6 Q.× 4=24 marks]

Attempt *ANY SIX*.

1. What is Weak entity? What two conditions must hold to exist weak entities? Explain with examples.
2. What do you mean by Data Abstraction? Explain the difference between physical and logical data independence.
3. Explain four differences between a file processing system and a DBMS.
4. How do you ensure that the relational schema is not in BCNF? Explain with suitable examples.
5. What do you mean by index? How do you evaluate the indexing algorithm?
6. How do you ensure the robustness in transaction system by considering the atomicity and isolation properties?
7. Explain how lock based protocol ensure the management of concurrent transactions?

SECTION "C"  
[2 Q.× 8=16 marks]

Attempt *ANY TWO*.

8. Discuss the different phases you have to go through while designing the database of any organization.
9. Explain in detail the mechanism of designing the Primary keys in the RDBMS. Prove that the referential Integrity is preserved with the implementation of foreign key with suitable example.
10. Discuss Data Manipulation language with respect to CRUD operation. Illustrate the use of VIEW statement in SQL and problem associated with VIEW statement.

