

Fourth Semester FYUGP Degree Examination APRIL 2026
KU4DSCCAP208 - DATA BASE MANAGEMENT SYSTEM
2024 Admission onwards

Time : 1.5 hours

Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. What is the role of DBMS in a hospital management system?
2. What is a weak entity?
3. What is a view in SQL?
4. what is the purpose of commit?
5. Explain the INSERT operation in SQL.
6. Define a query for between operator.
7. Define integrity constraints.
8. Why are certain functional dependencies called trivial functional dependencies?

Section B

Answer any 4 questions. Each carry 6 marks.

9. Analyze the differences between equi-join and natural join in relational databases.
10. Analyze the role of integrity constraints (Primary key, Foreign key, Unique, Not Null, Check) in SQL.
11. Consider the following schema
actor (actid, actfname, actlname) movie (movid, movtitle, movyear)
Moviecast (actid, movieid, role)
Develop SQL queries for the following
 - i) Display movies released after 2010
 - ii) Update the movie year of "Lokah" to 2024.
 - iii) Delete the record of the movie titled "Jab We Met".
 - iv) Display movie titles in descending order of release year.
 - v) Count total number of movies in the table.
12. With the help of an example explain the use of 'not unique' constraints in SQL

13. Analyze normalization? What is its role in database design?

14. Given $R(A,B,C,D)$, FD set $(AB \rightarrow C, C \rightarrow D, D \rightarrow A)$ Find the candidate keys.

Section C

Answer any 1 questions. Each carry 14 marks.

15. Compare different data models and evaluate their suitability for modern applications.

16. a) Create a function to find sum of 2 numbers.

b) Explain the types of data based on how it is organized

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