

Reg No:.....

Name :.....

Second Semester FYUGP Computer Science Examination
APRIL 2025 (2024 Admission onwards)
KU2DSCCSC109 (DATA MANAGEMENT PLATFORM)
(DATE OF EXAM: 02-05-2025)

Time : 90 min

Maximum Marks : 50

Part A (Answer any 6 questions. Each carries 2 marks)

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| 1. What is DBMS? | 2 |
| 2. What are the key components of the ER model? | 2 |
| 3. What are the different types of cardinality constraints? | 2 |
| 4. How do you create table in SQL | 2 |
| 5. What are constraints in SQL? | 2 |
| 6. What is a primary key in SQL? | 2 |
| 7. What is the difference between CREATE and ALTER commands? | 2 |
| 8. What does the ORDER BY clause do in SQL? | 2 |

Part B (Answer any 4 questions. Each carries 6 marks)

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| 9. Explain the role of database in modern application and industries | 6 |
| 10. How do cardinality and participation constraints impact in database ? | 6 |
| 11. What is meant by attributes.Explain its different types. | 6 |
| 12. Explain the difference between primary keys,unique keys and candidate keys. | 6 |
| 13. What are the different types of components in SQL? | 6 |
| 14. EXplain the different types of aggregate functions in SQL. | 6 |

Part C (Answer any 1 question(s). Each carries 14 marks)

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| 15. (a) Explain the three levels of data abstraction in DBMS with figure? | 7 |
| (b) Explain the significance of Database in Modern Applications and industries. | 7 |
| 16. (a) Compare SQL, NoSQL, and NewSQL databases in terms of scalability and performance. | 7 |
| (b) What are the different data types in SQL? | 7 |