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**School of Computing Science and Engineering**

Bachelor of Computer Applications

Mid Term Examination - Nov 2023

Duration : 90 Minutes

Max Marks : 50

**Sem III - E1UA302B - Database Management System**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Discuss about Data Manipulation language? K2 (2)
- 2) Explain the Query Processor? K1 (3)
- 3) Discuss about different types of Data models? K2 (4)
- 4) Differentiate relation schema and relational instance? Define the terms arity and degree of relation? What are domain constraints? K2 (6)
- 5) State about PROJECT operation in Relational algebra? K3 (6)
- 6) Define Dynamic SQL? K3 (9)
- 7) Define trigger and explain its three parts? Differentiate row level and statement level triggers? K4 (8)
- 8) Discuss different types of aggregate operators with examples in SQL? K4 (12)

**OR**

- a. Discuss correlated nested queries? b. Write a query to find the names of sailors who have reserved a red boat?c. Write a query to find the names of sailors who have not reserved a red boat? K4 (12)