



केन्द्रीय जनजातीय विश्वविद्यालय आन्ध्रप्रदेश  
**Central Tribal University of Andhra Pradesh**

(A Central University Established by an act of Parliament)

**II midterm Examinations - October 2024**

**SEMESTER – III**

**Subject: Database Management Systems**

**Subject Code – BAI202 (Major)**

**Program of Study: B.Sc. AI (II Year)**

**Part-A**

**Answer all the questions. Each Carries 1 mark.**

**1x5=5**

1. Write the SQL query to retrieve all the columns of the table
2. Define Nested Query with its syntax?
3. Define Transaction with an example?
4. What is shadow database scheme?
5. List the pros & cons of shadow database scheme

**Part-B**

**Answer either A or B short answer question. Question carries 5 marks**

**5x1=5**

- 6 A). Explain about aggregation operators/functions in DBMS with suitable examples.

**(OR)**

- B). Explain the ACID properties of a transaction in DBMS with an example of how each property is important.

**Part-C**

**Answer either A or B long answer question. Question carries 10 marks**

**10x1=10**

- 7 A) Explain the following with suitable examples

i) UNION Operator    ii) INTERSECT Operator    iii) EXCEPT Operator

**(OR)**

- B) Describe the different states of a transaction in DBMS with a state transition diagram