Reg.No.					
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Faculty of Engineering

School of Computing & IT Computer Science & Engineering IV SEM. BTech

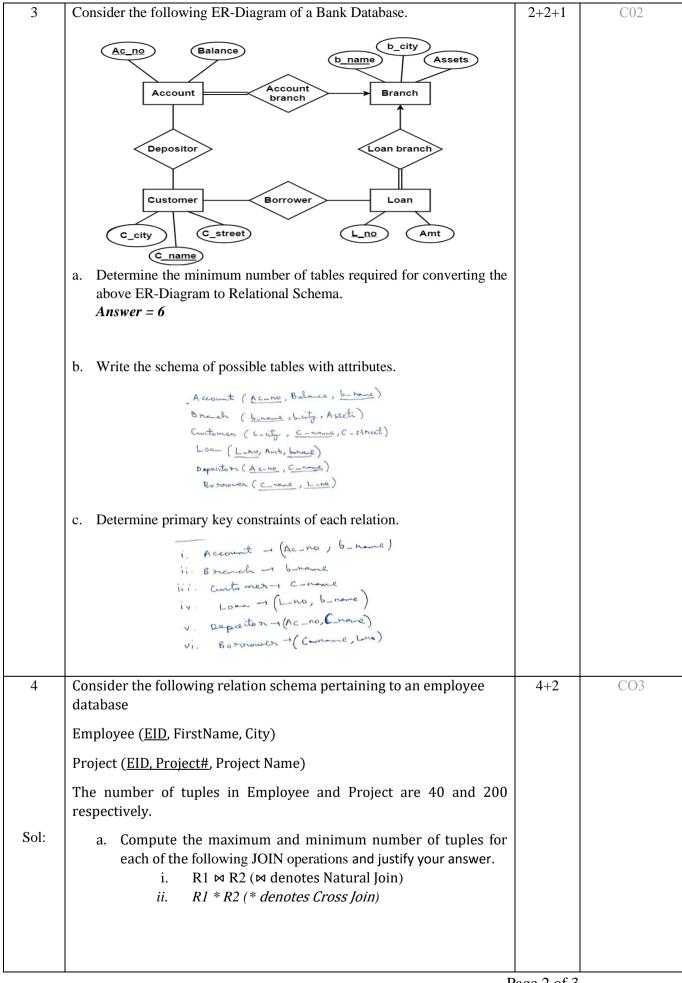
Even Semester MTE - I Examination 2021-22 CS2202 – RELATIONAL DATABASE MANAGEMENT SYSTEMS SOLUTION SCHEME

Time: 01 Hour MAX.MARKS: 20

Instructions to Candidates

- Answer all five questions in your own words.
- Missing data, if any, may be assumed suitably.

Q. No.	Question Script	Marks	CO Mapping
Sol:	Describe the advantages of database management system over traditional file system Data redundancy and inconsistency Data sharing Data concurrency Data searching	4	CO1
	 Data integrity System crashing Data security Transaction Management User Access 		
2	Create an ER-Diagram which models the various Departments, Courses, Students, Employees of <i>School of Computing & IT</i> . The focus shall be given on the following parameters. i. Entities, Attributes, Relationship ii. Integrity Constraints iii. Participant Constraints iv. Mapping Cardinality	5	CO2
Sol:	Students can articulate the conceptual model based on their understanding of the requirements. Award 2 marks for clearly specifying attest four entities, with appropriate attributes and relationship Award 1 marks for specifying integrity constraints Award 1 marks for specifying Participant Constraints Award 1 marks for specifying Mapping Cardinality		



Give two marks only for the correct answer & proper justification

	MAX	MIN
R1 ⋈ R2	200	200
R1 * R2	8000	8000

b. Write the equivalent SQL syntax for the above relational algebra queries.

GIVE ONE MARKS FOR EACH CORRECT SQL QUERY

(i) SELECT *
FROM EMPLOYEE, PROJECT
WHERE EMPLOYEE.EID = PROJECT.EID

SELECT *
FROM EMPLOYEE
NATURAL JOIN PROJECT

(ii)SELECT * FROM EMPLOYEE, PROJECT