National Institute of Technology Silchar Mid-Semester (UG) Examination- 2021

Subject Code: CS 302

Semester: 5th Duration: One Hour

Subject: Database Management System

Department: CSE Total Marks: 20

Figure in the right hand margin indicates full marks for the question. (The questions are self-explanatory and need no explanation)

- 1 Consider the following information about New Insurance Co. Ltd., an insurance 7 company. You have to draw a clean and neat ER diagram based on the given information. Do not forget to capture the constraints and clearly show the mapping cardinalities. All the primary keys be underlined. *Any missing information may suitably be resolved by taking suitable assumptions*.
 - 1. Customers have a PAN card, name, address and phone nos.
 - 2. The attributes of cars are license plate, state, model, make and year.
 - 3. A car is owned by a customer.
 - 4. Each customer that owns a car has an insurance policy.
 - 5. A customer can make a claim from the insurance company due to accidental damage of his/her car by placing the claimed amount. Also, the date of claim is recorded.
 - 6. For each claim, claim id, policy and description is recorded.
 - 7. Multiple payments may be made from a claim to the customer (claimant) by recording each payment amount and date of disbursal.
- 2 With reference to Q. No. 1, transform all the identified relationship sets into 6 appropriate relational schemas capturing all the integrity constraints using proper SOL statements.
- Write a SQL statement to find the name of the customer who has claimed accidental damage from his insurance policy no "1116787" against his car "AS11D9216".
- 4 Define the following terms: attributes, key constraints, mapping cardinalities, referential integrity constraint, super key
