## NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-15 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING B.TECH. DEGREE, V SEMESTER, I CYCLE TEST, AUG-2024 CSPC52 - Database Management and Systems

DATE: 28-08-2024

TIME: 10.30 a.m. – 11.30 a.m.

MAX.MARKS:20 marks

Answer all Questions

 $4 \times 5=20 \text{ marks}$ 

- 1. Explain the difference between two-tier and three-tier architectures. Which is better suited for web applications? Why?
- 2. Design an online E-Shopping information system using Python and MySQL. Product (productid, name, price, quantity, amount)
  Implement insertion and display details module.
- 3. Consider the following relational database.

  employee (e\_id, e\_name, designation, contact\_no)

  works (e\_id, c\_name, salary)

  company (c\_name, b\_name, city)
  - o Write a function to display the maximum salary drawn by an employee.
  - o Create a trigger to store the details of an employee in a log file once the contact \_no of an employee is updated.
- 4. Construct an E-R diagram for a hospital with a set of patients and a set of medical doctors. Associate with each patient a log of the various tests and examinations conducted. Convert the above E-R diagram into a set of relations. Convert the E-R diagram into a set of relations to represent a strong entity, weak entity, relationship set and multivalued attributes.

Best	Wishes