

JK Lakshmipat University Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination (Regular), December 2021

B.Tech, Semester V (CSE+EEE+ME+CE)

Roll No.....

EE1111: Introduction to IoT

Time: 2 hours

Max. Marks: 30

Instructions to students:

1. Do not write anything other than your roll number on question paper.
2. Assume suitable data wherever required and mention it clearly.
3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.
4. Use of Programmable Calculator is not allowed.

Q.1A Design Library Management System using RFID technology with the help of suitable diagram. 05

Q.1B Write a python program to calculate and print the distance of an object using sensor and Raspberry pi. You can choose the sensor as per requirement. 05

Q.2 Write a program to interface LM35 sensor with NodeMCU. Show the value of temperature on serial monitor. Also give the alarm indication when temperature goes above 32 degree C. Assume that Sensor is connected to A0 pin and Buzzer is connected to D3 pin of NodeMCU. Also draw the circuit required. 08

Q.3 Design a layout of SMART HOME project using neat and clean diagram. Detail all the specifications and requirement. Your layout should include sensors, actuators, connectivity and server technology. 12