Roll No. ....

TBC–505

B. C. A. (FIFTH SEMESTER)

MID SEMESTER EXAMINATION, 2022

INTERNET OF THINGS (IOT)

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each question carries 10 marks.

1. (a) Define Internet of Things with suitable example. Explain about various characteristics of IoT devices. (CO1)

OR

(b) Draw the functional block of IoT and explain about each the blocks. (CO1)

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2. (a) Enlighten different IoT protocols and layers with a neat diagram.   (CO1)

OR

(b) What is IoT communication models ? Explain different types of IoT communication models.   (CO1).

3. (a) Explain about the machine to machine (M2M) with proper example. (CO1, CO2)

OR

(b) State the difference between IoT and M2M.   (CO1, CO2)

4. (a) What is the IoT Communication APIs ? Describe REST-based Communication APIs.   (CO1, CO2)

OR

(b) What do you mean by the communication protocol in IoT ? Explain any *one* communication protocol used in the IoT.   (CO1, CO2)

5. (a) What is medium access control in IoT ? Describe wireless medium access issues in IoT.   (CO2)

OR

(b) Write short notes on the following :

(CO2)

(i) SOAP

(ii) REST

(iii) WebSocket

(iv) WSN