Seat No.

Total No. of Pages : 2

MAR_APR 2026 SUMMER EXAMINATION

1154 B.Tech. CBCS

Sub. Name: Internet of Thing's (CSE)

Sub. Code: 67827/80923

Day and Date: Wednesday,20-05-2026 **Total Marks: 70**

Time: 02:30 PM To 05:00 PM

Instructions: **1. All questions are compulsory**
2. Assume suitable data wherever necessary and mention it boldly
3. Figures to the right indicate full marks

Q1) Attempt any Two from the following. **[14]**

a. List and explain the different types of RFID tags. **[7]**

b. Define working definition of IoT and discuss H2H, H2M and M2M environment. **[7]**

c. Describe key IoT technologies of device intelligence and communication capabilities. **[7]**

Q2) Attempt any Two from the following **[14]**

a. Write a note on **[7]**
i. Resonant frequency
ii. Load modulation

b. Explain framed MAC protocol. **[7]**

c. What is Raspberry Pi ? Explain various Raspberry Pi models, their features and use in detail. **[7]**

Q3) Attempt any Two from the following **[14]**

a. Explain ZigBee protocol stack overview **[7]**

b. Enlist the WPAN Technologies for IoT/M2M and explain any one in detail **[7]**

c. Explain Cellular and Mobile Network Technologies for IoT/M2M **[7]**

Q4) Attempt any Two from the following **[14]**

a. Enlist the generic city sensors used in City Automation IoT application. Discuss the approaches to capture the vehicle location **[7]**

b. Discuss Smart Metering/Advanced Metering Infrastructure application with **[7]**

38588

suitable diagram.

c. What is working definition of IoT ? Discuss Home Automation as IoT/M2M application in detail with suitable diagram **[7]**

Q5) Attempt any Two from the following **[14]**

a. Draw and explain 3 domains in IoT Frameworks **[7]**

b. Define WSN? Explain connecting nodes in wireless sensor network. **[7]**

c. What is Raspberry Pi? Illustrate different components of Raspberry Pi board. **[7]**

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -
This Question Paper may be distributed for following Subjects as common code.
सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

1] (101) Bachelor of Engineering (67827) Internet of Things Part 4 SEM 8
2] (1154) B.Tech. CBCS (80923) Internet of Thing's (CSE) Part 3 SEM 5

38588