

[Time:2.30 Hrs]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:
1. All question are compulsory.
 2. Figures to the right indicate full marks.
 3. Students answering in the regional language should refer in case of doubt to the main text of the paper in English.

- Q1. Attempt any three of the following** **15**
- a. What is IoT? Explain the four flavors of the IoT.
 - b. Discuss Explain five metaphors for IoT.
 - c. Explain IPV6 for IoT.
 - d. Explain the calm technology or calm design.
 - e. Describe the multipath TCP deployment.
 - f. Explain the role of affordances in digital transformation and internet of things.
- Q2. Attempt any three of the following** **15**
- a. Explain the Raspberry pi 3 model B microcontroller board.
 - b. Explain open source vs closed source.
 - c. Explain the primary guidelines for prototyping.
 - d. Explain the several factors that need to be considered when identifying and appropriate platform.
 - e. Explain the characteristics of IoT device.
 - f. Describe the benefits of sketching and prototyping.
- Q3. Attempt any three of the following** **15**
- a. Explain the concept designing a web application for humans.
 - b. Define and explain the concept of repurposing/Recycling.
 - c. Define and explain the concept of CNC milling.
 - d. Define and explain the Laser cutting.
 - e. What is 3D printing? Classify and explain the types of 3D printing.
 - f. Define following:
 - i. Scraping
 - ii. Legalities
 - iii. Clockdillo
- Q4. Attempt any three of the following** **15**
- a. Classify and explain the types of memory.
 - b. Describe funding an Internet of Things startup.
 - c. Define the venture capital.
 - d. Write a short note on business model canvas.
 - e. Define space and time.
 - f. Explain the following:
 - i. Govt. funding.
 - ii. Crowd funding.

Q5. Attempt any three of the following **15**

- a. Explain common PCB (Printed Circuit Board) making techniques.
- b. Explain the open Internet of Things definition.
- c. Explain the issues on privacy. Also explain how internet affects
- d. What is Fisher's original definition observed five critical requirements for a sensor commons project?
- e. How to be characterizing the internet of things? Explain.
- f. Explain the following section regarding the ethical issues specific to IOT:
 - i. PRIVACY
 - ii. CONTROL
 - iii. ENVIRONMENT
