

TE sem-VI CDPN C-scheme May/2026
Date: 20/05/2026

Duration: 3 hours

[Max Marks:80]

- N.B. : (1) Question No 1 is Compulsory.
(2) Attempt any three questions out of the remaining five.
(3) All questions carry equal marks.
(4) Assume suitable data, if required and state it clearly.

- 1 Attempt any **FOUR** [20]
 - a Explain the impact of IoT on society.
 - b Explain IoT World Forum (IoTWF) Standardized Architecture with a neat diagram.
 - c Explain different types of sensors.
 - d What are the different application protocols of IoT?
 - e Describe Pin configuration of Arduino UNO.
- 2 a Explain SCADA Protocol Translation. [10]
b Explain Applications and Analytics Layer. Differentiate Analytics Vs. Control Applications [10]
- 3 a Which IoT protocol is used for smart parking? How will you provide security for these applications with the suggested protocol? [10]
b What is IoB? State the similarities and differences between IoB and IIoT. [10]
- 4 a Explain RFID and MicroElectro-Mechanical Systems (MEMS) with a neat diagram. [10]
b Differentiate MQTT and COAP. [10]
- 5 a Compare various IoT software platforms to design IoT application. [10]
b Explain BLE and LTE-A (LTE Advanced). [10]
- 6 a Explain Communications Network Layer, Access Network Sublayer in detail. [10]
b Write short note on Health & Fitness Monitoring using IoT, Wearable Electronics. [10]