

Enrollment No: _____

KADI SARVA VISHWAVIDYALAYA

B.E. SEMESTER – 6 REGULAR/REMEDIAL EXAMINATION APRIL 2025

SUBJECT CODE:- CE605D-N

SUBJECT NAME:- Internet of Things

DATE:- 16/04/2025

TIME: - 12:30PM to 03:30PM

MARKS:-70 Marks

Instructions:

1. Answer each section in separate Answer Sheet.
2. Use of scientific calculator is permitted.
3. All questions are compulsory.
4. Indicate clearly, the options you attempted along with its respective question number.
5. Use the last page of main supplementary for rough work.

SECTION-I

- Q1 A** Write a short note on Data aggregation. [5]
B Explain IoT device block diagram. [5]
C Explain IoT Communication models. [5]

OR

- C** Explain IoT Communication APIs. [5]

- Q-2 A** Explain any two types of MAC protocol survey. [5]
B Explain IoT Level 1 and 5 with proper diagram. [5]

OR

- Q-2 A** Explain any two Routing Protocols. [5]
B Explain IoT level 2 and 6 with proper diagram. [5]

- Q-3 A** Explain Value chain of M2M. [5]
B Explain SDN Architecture. [5]

OR

- Q-3 A** Explain Value chain of IoT. [5]
B Explain different types of SDN. [5]

SECTION-II

- Q4 A** Explain OpenIoT architecture. [5]
B Write a short note on IoT Tools. [5]

C Explain Home automation application of IoT. [5]

OR

C Explain agriculture and Health application of IoT. [5]

Q-5 A Explain different types of Design challenges of IoT. [5]

B Explain IoT service Life cycle. [5]

OR

A Explain different types of Development challenges of IoT. [5]

B Explain how python is useful in IoT. [5]

Q-6 A Write an Arduino code to turn LED on and off using Button Sensor. [5]

B Write a short note on Raspberry Pi. [5]

OR

A Write an Arduino code to turn Buzzer on and when flame detected by flame Sensor. [5]

B List any one Sensor and one Actuator. Also explain how to integrate them. [5]