

Fourth Semester FYUGP Degree (Reg) Examination April
2026

KU4VACCAP105 - BASICS OF INTERNET OF
THINGS(IoT)

2024 Admission onwards

Time : 1.5 hours

Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Which protocol is suitable for video streaming in IoT?
2. What is Bluetooth?
3. What is firmware in IoT devices?
4. Write a short note on hacking of IoT devices.
5. Give two examples of wearable IoT devices.
6. Explain how Arduino Uno is used in IoT projects.
7. State any two benefits of IoT.
8. Write two advantages of Industrial IoT.

Section B

Answer any 4 questions. Each carry 6 marks.

9. Describe how IoT can be applied in smart agriculture.
10. Compare wearable devices and embedded IoT devices.
11. Design a smart home automation system using microcontroller.
12. Explain the working of an IoT system with a suitable example.
13. Explain MQTT protocol and its features.
14. Discuss the advantages and challenges of IoT in smart homes.

Section C

Answer any 1 questions. Each carry 14 marks.

15. Discuss Wireless Communication Protocols used in IoT with comparison and applications.
16. Critically analyze the end-to-end security architecture of an IoT system. Discuss common threats and explain how encryption, authentication, and access control can be integrated at device, network, and application layers to build a secure IoT ecosystem.

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