

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2025 ONLY)

25UCC205

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY-2026

**B.Com.-C.A
SEMESTER: II**

**MAXIMUM MARKS: 75
TIME : 3 HOURS**

PART - III

INTERNET OF THINGS

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. IoT architecture commonly consists of_____.
a) 2 layers b) 3 layers c) 4 layers d) 5 layers
2. Wireless IoT communication uses_____.
a) Optical fiber b) LoRaWAN c) Coaxial cable d) Twisted pair
3. Embedded software runs on_____.
a) Cloud b) Server c) Hardware devices d) Browser
4. MQTT is a_____.
a) Hardware b) Protocol c) Database d) OS
5. Trust models are used for_____.
a) Storage b) Processing c) Security d) Visualization

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. Interpret two applications of IoT.
7. Define is an IoT case study?
8. Indicate any two hardware requirements of IoT.
9. Define cloud computing.
10. Interpret is malware?

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Describe the major components of IoT.
(OR)
b) Assess challenges in IoT implementation
- 12.a) Show data generation and transmission in IoT.
(OR)
b) Examine the steps involved in an IoT project
- 13.a) Describe hardware and software requirements of IoT.
(OR)
b) Examine end-device programming.

(CONTD 2)

- 14.a) Sketch IoT connectivity methods.
(OR)
b) Describe communication challenges in IoT.
15. a) Examine network robustness in IoT.
(OR)
b) Interpret authentication methods in IoT.

SECTION – C**(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K4 (Or) K5)**

16. a) Analyse the role of IoT in smart cities.
(OR)
b) Debate traditional internet and Internet of Things.
17. a) Examine wired vs wireless communication in IoT.
(OR)
b) Discuss a project plan for an IoT-based system.
18. a) Pointout a data acquisition system for smart devices.
(OR)
b) Design an IoT platform for real-time monitoring.
- 19.a) Analyze big data challenges in IoT.
(OR)
b) Examine cloud vs in-house storage for IoT.
- 20.a) Analyze IoT security architecture.
(OR)
b) Evaluate future security trends in IoT

ETHICAL PAPER