

REG.NO:

NGM COLLEGE (AUTONOMOUS) POLLACHI
END-OF-SEMESTER EXAMINATIONS: NOVEMBER – 2025

B.C.A.
V SEMESTER

MAXIMUM MARKS: 50
TIME: 2 HOURS

PART-IV : SKILL BASED ELECTIVE–I
INTERNET OF THINGS

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER ALL THE QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. Which of the following is an example of an IOT device?
a) Smartwatch b) Smartphone c) Laptop d) Desktop
2. Any object that can be connected and communicate over the internet is referred as
a) Sensors b) Things c) Mobiles d) Computers
3. M2M communication stands for
a) Man to Machine b) Machine to Machine c) Mobile to mobile d) Man to Man
4. The Ultrasonic sensor measures.....
a) Distance b) Humidity c) Pressure d) Temperature
5. In home automation IOT is used for
a) power supply b) Internet speed c) Control devices Remotely d) Cleaning

SHORT ANSWERS.

(K2)

6. Define Internet of Things.
7. What is Embedded system?
8. What is a Smart device?
9. What is the use of Arduino IDE?
10. What are IOT applications?

SECTION – B

(5 X 8= 40 MARKS)

ANSWER ANY FIVE QUESTIONS.

(K3)

11. Describe the different IOT levels and Deployment templates.
12. Discuss the IOT Platform design methodology in detail.
13. Write short notes on major IOT protocols used in Communication.
14. Write and explain a program to interface LED and switch using Arduino.
15. Explain how ultrasonic, humidity and motion sensors work in IOT.
16. Explain the role of IOT in home automation with an example.
17. Describe the use of IOT in Agriculture and Precision Farming.
18. Discuss various IOT productivity applications with real-time examples.