

(FOR THE CANDIDATES ADMITTED

23UAI5E1

DURING THE ACADEMIC YEAR 2023-2026 ONLY)

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS: NOVEMBER- 2025

B. Sc C. S with AI and ML

MAXIMUM MARKS: 75

SEMESTER- V

TIME : 3 HOURS

PART-III
23UAI5E1-IOT

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. Which one of the following is an interface between IoT devices and cloud platforms?
a) Cloud computing b) Satellite Communication c) IoT gateway d) LTE
2. Identify the commonly used protocol used for Wireless Sensor Network (WSN) in IoT applications.
a) TCP/IP b) Zigbee c) BACNet d) HTTP
3. Name of the layer used for wireless connection in IoT devices.
a) Network b) Transport c) Data Link d) Application
4. _____ is a set of principles and methodologies for designing and developing software in the form of interoperable services, usually over the Internet
a) SOAP b) HTTP c) WOT d) SOA
5. Which device is used to control lighting in a smart home?
a) smart Thermostat b) Smart plug c) Smart Light Bulb d) Smart speaker

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Write any two benefits of IoT.
7. Define M2M.
8. Specify the importance of OIC.
9. List the layer architecture of Web of Things (WoT).
10. Specify any two smart applications of IoT.

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) What is IoT? Write the characteristics of IoT System
(OR)
b) Describe Trends and Implications in IoT.
12. a) What is the relation between WSN and IoT? Explain with example.
(OR)
b) Explain RFID Protocols.

13. a) Give a note on Cloud computing in IoT.

(OR)

b) Discuss OIC architecture of IoT with neat sketch.

14. a) Compare Web of Things and Internet of Things

(OR)

b) Express the features of Business Intelligence

15. a) Write the benefits of Brownfield IoT

(OR)

b) Write a note on smart applications.

SECTION – C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)

16. a) Describe the components of IoT Ecosystem with neat block diagram.

(OR)

b) Discuss the development and security issues in IOT applications in details

17. a) Explain M2M Service Layer Standardization.

(OR)

b) Interpret the topologies of ZIGBEE protocol

18. a) Elucidate the types of IoT devices and Deployment Model.

(OR)

b) Depict the architecture of IoTivity Stack

19. a) Explain the 3-tier architecture of Two pillars of web.

(OR)

b) Unified Multitier WOT Architecture – Discuss in detail.

20. a) Write in detail about IoT applications in industry.

(OR)

b) How can IoT be used in Wireless Sensor Network and Smart Phones?
