

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023
(Fourth Semester)

Branch – APPLIED ELECTRONICS

IoT AND ITS APPLICATIONS

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

1. What is the full form of IoT?
i) Internet of Technology
ii) Incorporate of Things
iii) Internet of Things
iv) Incorporate of Technology
2. Which layer is used for wireless connection in IoT devices?
i) Application layer
ii) Network layer
iii) Datalink layer
iv) Transport layer
3. Total elements in the Open IoT Architecture is _____.
i) 5
ii) 6
iii) 7
iv) 8
4. Which is an operating system for IoT?
i) Contiki
ii) RIOT
iii) Spark
iv) Allyoyn
5. What is the role of Gateway in smart grid architecture of IoT?
i) Store data
ii) Manage data
iii) Collect data
iv) Security

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

6. a. Illustrate the IoT Design Methodology.
OR
b. Discuss the IoT Application.
7. a. Draw the diagram of 802.11 architecture and explain.
OR
b. Discuss the advantage of QoS in IoT System.
8. a. Explain about the Embedded system software.
OR
b. What is SoCs. and list the applications?
9. a. Explain the IoT Software architecture.
OR
b. State the process of Embedded Linux.
10. a. Discuss about the Data source.
OR
b. Explain the Frequent pattern mining.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a. Discuss about IoT Enabling technology.
OR
b. Describe the IoT Architecture.
- 12 a. Analyze the Zigbee Architecture.
OR
b. Discuss about the Layer Protocol Optimization.
- 13 a. Illustrate the operation of SoCs.
OR
b. Describe the working of Sensors and Actuators.
- 14 a. Discuss about the operating systems for IoT applications.
OR
b. Explain the Four main components of IoT Systems.
- 15 a. Discuss about the Data types in IoT.
OR
b. Explain about the Clustering.

Z-Z-Z

END