

Anjuman Islam Janjira Degree College of Science Murud-Janjira, Raigad-402401 Affiliated to University of Mumbai As per NEP 2020	
Class: -S.Y.B.Sc. C.S.	Subject: - : Major IoT Technologies
Semester:- IV	Vertical:- Major(MJ10)
Exam Event:- Summer 2026 (FH)	Marks: - 30
Date: - 7/03/2026	Duration: - 01:00 Hour

- N.B. –**
- 1 – All questions are compulsory.**
 - 2 – All questions have internal choice.**
 - 3 – Figures to the right indicate full marks.**



Q1. Answer the following question. (Any 2 out of 4)

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- 1) Define Internet of Things (IoT). Explain its characteristics.
- 2) Differentiate between IoT and M2M communication.
- 3) Illustrate and explain the five-layer architecture used in IoT systems.
- 4) What are the SoC Elements? Explain different SoC elements.

Q2. Answer the following question. (Any 2 out of 4)

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- 1) Explain the working of Analog and Digital Sensors used in IoT.
- 2) Describe different communication protocols used in IoT.
- 3) What Data Exchange with IoT Devices?
- 4) Compare edge, fog and cloud computing.

Q3. Answer the following question. (Any 2 out of 4)

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- 1) Explain the role of Cloud Computing, Big Data, and AI in IoT.
- 2) What is an IoT framework? Explain different frameworks in IoT.
- 3) Differentiate between Analog Sensors and Digital Sensors.
- 4) Define Wireless Sensor Network (WSN). Explain its basic components.