

RAN-2611000906044002

T.Y.B.C.A. (Sem. VI) Examination February - 2026
Concepts of AI And IoT Devices - Minor (Paper - 601-02)

Time: 2 Hours
[Total Marks: 50
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q.1. [A] Answer the Following (Any Five)
[05]

- Which of the following represents AI that surpasses human intelligence?
 - Narrow AI
 - General AI
 - Super AI
 - Machine AI
- Actuators in an IoT system are mainly used to :
 - Store data in the cloud
 - Analyze data using AI
 - Connect devices to the internet
 - Perform Physical actions based on commands
- Cloud AI is best suited for:
 - Instant decisions
 - Offline systems
 - Complex analysis and large
 - Battery-based devices
- Which connectivity technology is best for long-range and low-power communication?
 - Wi-Fi
 - Bluetooth
 - zigbee
 - LoRaWAN
- Smart farming mainly uses:
 - Only AI
 - Only IoT
 - AI and IoT
 - Manual methods
- Which component enables AI algorithms to process data instantly in AIoT systems?
 - Batch processing
 - Real time data processing
 - Manual analysis
 - Offline computation

[B] Answer in Short (Any Four)
[08]

- Is Deep Learning a subset of AI or ML? Justify your answer.
- Where is data stored and processed in IoT systems?
- Give one example of AIoT in a smart home.
- List IoT devices used in smart agriculture.
- What type of AI is Siri or Alexa?

- Q.2. Answer the following:** [08]
- A. What is AI? Explain the history and evolution of Artificial Intelligence.
- OR**
- A. Explain data flow from sensors to AI processing.
- B. What is IoT? Explain the architecture of IoT systems. [05]
- Q.3. Answer the following (Any 2)** [12]
- a) Explain key concepts Deep Learning.
- b) Explain the difference between Edge Computing and Cloud AI in IoT.
- c) What is AIoT? Also explain challenges in AIoT.
- Q.4. Answer the following (Any 2)** [12]
- a) Explain basics of connectivity.
- b) Explain AI-based decision making from IoT inputs with example.
- c) Explain Case Study of Smart Farming using IoT and AI.
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