



RAN - 2211000306026003

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**T.Y.B.Sc. CS (Sem. VI) Examination September - 2023**

**Introduction to Internet of Things - Paper - 603**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**सूचना : / Instructions**

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नीचे दशावैल निशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

T.Y.B.Sc. CS (Sem. VI)

Name of the Subject :

Introduction to Internet of Things - Paper - 603

Subject Code No.: 2211000306026003

Seat No.:

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Student's Signature

**Q-1. Answer the following in brief. (Any Seven)**

**14**

- What is the role of things and Internet in IoT?
- What is the work of a controller service in an IoT system?
- What is Digital Sensor?
- What is Raspberry pi?
- List out basic building blocks of IoT.
- List out Types of sensors.
- What is Ultrasonic Sensor?
- Define: IR sensor.

**Q.2 Answer the following in detail. (Any Two)**

**12**

- Explain how Raspberry Pi different form desktop computer.
- Explain Types of Actuators in detail.
- Differentiate M2M and IoT.

**Q.3 Answer the following in detail. (Any Two) 12**

- a. Explain M2M architecture in detail.
- b. Describe an example of IoT service that uses publish-subscribe communication model.
- c. Describe an example of IoT service that uses web socket based communications.

**Q.4 Write Short Note on the following. (Any Three) 12**

- a. Physical design of IoT.
  - b. IoT Protocols
  - c. IoT Application for Smart Home Functions
  - d. Types of sensors
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