



RAN - 2211000306026003

RAN-2211000306026003

T. Y. B. Sc. (Computer Science) (Sem. - VI) Examination April - 2023

Introduction to Internet of Things : 603

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

T. Y. B. Sc. (Computer Science) (Sem. - VI)

Name of the Subject :

Introduction to Internet of Things : 603

Subject Code No.: 2211000306026003

Seat No.:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

Student's Signature

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

14

- Does mobile and computers are considered as IoT device? Why?
- Explain any two IoT applications In brief.
- What is 6LowPan?
- What is function of perception layer in IoT architecture?
- Define : Sensors
- Which IoT devices are known and used to develop IoT applications?
- How Internet of Things can be used for Smart Home management?
- Explain water level sensor and it's working in brief.

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

12

- Explain IoT and M2M Communication in detail. Which protocols are part of IoT system?
- Explain any two IoT communication models in detail.
- Discuss functional blocks of IoT system in detail.

- Q. 3. Answer the following in detail. (Any Two) 12**
- a. Which sensors are useful from smart home management system for various tasks of IoT?
 - b. Differentiate sensors and actuators and their need for IoT application.
 - c. Explain different IoT network technologies used with IoT setups.

- Q. 4. Answer the following in detail. (Any Two) 12**
- a. Explain components of Raspberry Pi model.
 - b. How Raspberry Pi programming can be implemented for IoT application. Explain with proper example.
 - c. What are the Security Risks of IoT? How they can be prevented?
-