

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2023
SEMESTER -III

Sub: Internet of Things (MSC -305 -22)

Date : 13/12/2023

Total Marks : 60

Time: 10.00 am to 12.30 pm

Instruction:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagram wherever necessary.

Q. 1. Answer the following in 2-3 lines. (Any 5) (10)

1. What is the Internet Of Things (IoT)?
2. What is Zigbee?
3. What is WSN?
4. Define the term "Public Cloud"
5. Define the term "Non-repudiation".
6. Explain Digital Sensor with example.
7. Explain the use of Transducer.

Q. 2. Answer the following in short. (Any 4) (20)

1. What are the disadvantages of IoT?
2. What are the challenges of IoT?
3. Explain mostly used sensors types in IoT.
4. Explain in detail architecture of Cloud Computing.
5. What is actuator? Explain its working with two examples.
6. What is RFID? Explain its application in IoT.

Q. 3. Answer the following in detail. (Any 3) (30)

1. Define the term "Sensing". Explain sensor classes based on types & data types.
 2. Write a program to generate traffic signal with LED.
 3. What is cloud computing? Explain the Cloud of Things with example.
 4. Explain the threats and security requirements in IoT.
 5. Explain the IoT Environment characteristics.
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