

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2024
SEMESTER -III
Sub: Internet of Things (MSC -305 -22)

Date : 27/12/2024

Total Marks : 60

Time: 2.00 pm To 4.30pm

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. Define Public & Private Cloud?
2. What is Mobile cloud computing?
3. Explain digital sensor with example.
4. What is RFID?
5. Explain M2M Communication.
6. Define wireless technology?
7. Explain connectivity technology Bluetooth.

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

1. What are actuators? Give two examples of actuator.
2. Explain cloud of things architecture.
3. What is HART? How it is applicable in IoT.
4. Explain Security requirement for IoT
5. Define IoT & its characteristics of IoT.
6. Explain basic structure of Arduino programming.

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

1. Write down Arduino program for generating traffic signal with LED.
 2. Write down the different risk associated with JOT.
 3. Explain Vulnerabilities of IoT.
 4. What is Sensing? Explain the types of sensors with examples.
 5. Explain Amazon web services for IoT.
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