

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS
EXAMINATION : JUNE - 2022
SEMESTER - III
Sub: Internet of Things (MSC -304 -19)

Date : 14/06/2022

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

1. What is use of LoRaWan protocol?
2. Define star and mesh topology.
3. What two functions are used in Arduino IDE? Explain with syntax.
4. Define wireless HART.
5. Elaborate working of sensor device.
6. Define term: public and private cloud.
7. Define XMPP.

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

1. Explain IoT Data Protocols with its types.
2. Explain different topologies used in Zigbee.
3. Write a short note on wireless sensor network.
4. Explain different services provided by cloud computing in IOT environment.
5. Explain RFID? How it applicable to IOT.
6. Explain Connectivity technologies Bluetooth in detail.

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

1. Define IOT. Explain characteristics of it.
 2. Describe Machine-to-machine communication with its features and application in IOT.
 3. Explain Mobile cloud computing architecture in detail.
 4. Explain Vulnerabilities of IoT.
 5. List out IOT application. Explain any one in detail.
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