

ET705M-1 / OEC-1 - Open Elective-III : Internet of Things

P. Pages : 2

Time : Three Hours



GUG/W/22/14253

Max. Marks : 80

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- Notes : 1. All questions carry marks as indicated.
2. Assume suitable data wherever necessary.
3. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Draw and explain IOT Architecture. **8**
b) What is M2M? Write Difference between IOT and M2M **8**

OR

2. a) Write short note on. **8**
i) History of IOT
ii) Enabling Technology in IOT
b) Discuss in detail about things in IOT and Identification of IOT. **8**
3. a) Explain in detail TCP / IP protocol Suit. **8**
b) What is Addressing? Explain MAC addressing in detail. **8**

OR

4. a) Elaborate Application Layer Protocol. **8**
b) Explain the following. **8**
i) FTP
ii) TELNET
iii) SSH
iv) SMTP
Write Difference Between pop3 and IMAP.
5. a) Explain Different Types of sensors and write its Characteristics. **8**
b) Describe WSN and Explain History of WSN. **8**

OR

6. a) Discuss in detail about RFID Components and working. **8**
b) What is Sensor Node? Explain with block Diagram. **8**
7. a) Explain Implementation of IOT with Raspberry pi. **8**

- b) Describe Integration of sensor and actuators with Arduino. **8**

OR

- 8.** a) Write short note on. **8**

i) Arduino Programming.

ii) Python Programming.

- b) Explain in Detail about Interoperability in IOT. **8**

- 9.** a) Explain Sensor Cloud with Diagram. **8**

- b) Discuss in detail Fog Computing compare Fog Computing and Cloud Computing on the basis of following parameters. **8**

i) Latency

ii) Data Integration

iii) Communication Mode

iv) Capacity

OR

- 10.** a) Explain the following. **8**

i) Public Cloud

ii) Private Cloud

iii) Hybrid Cloud

iv) Community Cloud

- b) Summarize Data Handling And Analytics. **8**
