

III B. Tech II Semester Regular/Supplementary Examinations, October/November - 2020**INTERNET OF THINGS**

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answer **ALL** the question in **Part-A**
 3. Answer any **FOUR** Questions from **Part-B**
- ~~~~~

PART –A**(14 Marks)**

1. a) Mention the roles of RFID in the IoT System. [2M]
- b) How does a passive device communicate on the Internet? [2M]
- c) Define the CoAP (Constrained Application Protocol). [2M]
- d) List any three features of IPv4. [3M]
- e) Write any three Server Management Procedures. [3M]
- f) List the needs of Virtualization. [2M]

PART –B**(56 Marks)**

2. a) Explain the four levels in an Architectural Framework for a Smart City. [7M]
- b) Discuss the IoT development boards from sources of IoT. [7M]
3. a) Justify whether affordability is Mandatory during the design of IoT? [7M]
- b) Briefly explain about device Management. [7M]
4. a) Describe the MIME file type and list the features of MIME (Multipurpose Internet Mail Extensions). [7M]
- b) Explain the functionalities of MQTT (Message Queuing Telemetry Transport) Broker with its architecture. [7M]
5. a) Discuss IPv6 over Low Power Wireless Personal Area Network (6LoWPAN). [7M]
- b) How Internet-Based Communication does in IoT? Explain in detail. [7M]
6. a) Explain Business Intelligence with a neat sketch. [7M]
- b) Illustrate the Transaction Processing Models. [7M]
7. a) Describe the IoT Cloud-based Data Collection using Nimbits. [7M]
- b) Explain the concept “Everything As A Cloud” with a neat diagram. [7M]
