

B.Sc. (Data Science) Semester-II  
**BSCDS24 - Internet of Things Embedded System**

P. Pages : 1

Time : Two Hours



**GUG/W/24/15264**

Max. Marks : 40

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1. a) Described characteristics of IoT. 4
- b) Explain the term Big Data with example. 4
- OR**
- c) What do you mean by cloud computing. Explain it's types in detail. 4
- d) Differentiate between IoT and M2M. 4
2. a) Explain operators of "C" in detail. 4
- b) Describe 8266 with pin diagram. 4
- OR**
- c) Explain different loops in "C". 4
- d) Differentiate between analog and digital sensors. 4
3. a) Explain Python data types. 4
- b) Explain basic of Linux commands. 4
- OR**
- c) What do you mean by exception handling, explain with an example. 4
- d) Explain models of Raspberry Pi. 4
4. a) Write steps to configuring NodeMCU for connecting to server. 4
- b) Write steps to interface R Pi 3 with twitter and whatsapp. 4
- OR**
- c) Described NodeMCU and how it interface with web services. 4
- d) How we can configurate between R Pi 3 wi-fi and ethernet. 4
5. a) Explain UART in detail. 4
- b) Explain the term Data Distribution Service (DDS) in detail. 4
- OR**
- c) Explain the term Bluetooth Low Energy (BLE). 4
- d) Describe the term Advanced Message Queuing Protocol (AMQP) in detail. 4

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