Code No: 137DQ **R16**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, March - 2021
INTERNET OF THINGS
(Common to ECE, CSE, IT)

Time: 3 Hours **Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks

1.a) Define IoT. List and explain the characteristics of IoT.
b) Discuss the IoT communication models. [7+8]

2. Explain the following terms NETCONF, YANG, SNMP NETOPEER. [15]

3.a) Write a Python program which will throw exception if the value entered by user is less than zero.
b) Discuss about the data types in Python with examples. [7+8]

4.a) Explain the IoT Physical Devices and Endpoints.
b) Enumerate on Raspberry Pi interfaces. [7+8]

5.a) Explain the Python web application framework.
b) Illustrate the Cloud for IoT. [7+8]

6.a) What is meant by big data analytics? List the advantages of the big data analytics.
b) Explain the network function virtualization. [7+8]

7.a) List and explain the basic building blocks of an IoT Device
b) Write the difference between SDN and NFV for IoT. [7+8]

8. Explain the following:
a) HTTP Lib,
b) URL Lib
c) SMTP Lib [5+5+5]

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