**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**
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|---|---|---|
| 1.a) | Define IoT. List and explain the characteristics of IoT. | |
| b) | Discuss the IoT communication models. | [7+8] |
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| 2. | Explain the following terms NETCONF, YANG, SNMP NETOPEER. | [15] |
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| 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] |
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| 4.a) | Explain the IoT Physical Devices and Endpoints. | |
| b) | Enumerate on Raspberry Pi interfaces. | [7+8] |
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| 5.a) | Explain the Python web application framework. | |
| b) | Illustrate the Cloud for IoT. | [7+8] |
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| 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] |
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| 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] |
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| 8. | Explain the following: | |
| | a) HTTP Lib, | |
| | b) URL Lib | |
| | c) SMTP Lib | [5+5+5] |

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