Code No: 156BJ

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, August/September - 2021
INTERNET OF THINGS
(Information Technology)

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

Answer any five questions
All questions carry equal marks
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1. List the different types of IoT enabling Technologies. Describe them in detail. [15]

2. How can we collect the different types of data generated by a forest fire detection system? Explain the alternative approach for the same and also specify what type of analysis is required for forest fire detection from the data collected? [15]

3. With the help of a neat sketch, explain the IoT Device Management with NETCONF – YANG. [15]

4.a) Why we need IoT systems management?
  b) Write a short notes on NETCONF protocol layers. [7+8]

5. What is a function? List their advantages? With the help of syntax and example program explain the various types of functions that can be defined based on return type and arguments. [15]

6.a) Write a python program to find any given string is palindrome or not, don't use built – in functions.
  b) Write a python program to find the sum of individual digits of any given number (Note: 1234=1+2+3+4 = 10). [8+7]

7. Write a python code using raspberry pi to display traffic signals. [15]

8.a) Write and explain any three basic APIs.
  b) Give brief information about the service models of a cloud computing. [7+8]

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