R15

Code No: 824AX

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA IV Semester Examinations, March/April - 2022
INTERNET OF THINGS

Time: 3 Hours   Max.Marks:75

Answer any five questions
All questions carry equal marks
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1.a) Define IoT and discuss its characteristics.
  b) Explain the protocol layer of IoT and explain various protocols used in each layer.[7+8]

2.a) Wireless communications have an effect on the development and implementation of the internet of things (IoT)? Explain.
  b) Discuss in brief about domain specific IoTs.   [8+7]

3.a) What is network function virtualization? Explain.
  b) Explain IoT System Management with NETCONF.   [7+8]

4.a) Explain the differences between SDN and NFV for IoT.
  b) What is NETOPEER and explain how it is used to implement IoT device management.
                                                                                           [7+8]

5.a) Write a python program to describe different ways of deleting an element from the given List.
  b) Explain about Python packages – JSON and XML in detail.   [8+7]

6.a) Explain about fruitful functions and anonymous functions with suitable examples.
  b) What type of parameter passing is used in Python? Justify your answer with sample programs.   [7+8]

7.a) Describe the relative strength and limitation of Building IOT with RASPERRY PI.
  b) Explain in detail about the IoT physical Devices.   [8+7]

8.a) Describe different Cloud Service Models.
  b) Explain the process of designing RESTful Web API.   [7+8]

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