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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, April/May - 2019 INTERNET OF THINGS

Time: 3hrs Max.Marks:75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A		
1.a) b)	Define Internet of Things? Mention the characteristics of IoT. Describe the significance of M2M in IoT.	xs = 25 [5] [5]
c) d)	List and mention the functions available in Python packages for IoT. Correlate Raspberry PI with python.	[5] [5]
e)	List the web servers supported by IoT. Suggest the best web server to use in IoT.	[5]
PART - B $5 \times 10 \text{ Marks} = 50$		
2.	Illustrate the IoT enable Technologies. OR	$\mathbf{cs} = 50$ [10]
3.	Describe any 2 domain specific IoTs. Mention the challenges in each case. How overcome those challenges?	do you [10]
4.	How do you manage the IoT system with following? a) NETCOZF b)YANG- NETCONF OR	[5+5]
5.a) b)	Write a short on note software defined networks. What is concept of Network function virtualization?	[5+5]
6.	Illustrate the concepts of data types and data structures in Python. OR	[10]
7.	Write down the final values of A0, A1,An.	
	A0 = dict(zip(('a','b','c','d','e'),(1,2,3,4,5))) A1 = range(10)	
	$A2 = sorted([i ext{ for } i ext{ in } A1 ext{ if } i ext{ in } A0])$ $A3 = sorted([A0[s] ext{ for } s ext{ in } A0])$	
	A4 = [i for i in A1 if i in A3]	
	$A5 = \{i:i*i \text{ for } i \text{ in } A1\}$ $A6 = [[i,i*i] \text{ for } i \text{ in } A1]$	[10]
8.	Illustrate the Raspberry PI interfaces with suitable examples. OR	[10]
9.	Write a Python program with Raspberry PI for reading inputs from pins.	[10]
10.	Illustrate the python web application frame work. OR	[10]
11.	Explain following a) Cloud storage models. b) Communication APIs.	[5+5]