R18

Code No: 157CD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, January/February - 2023 INTERNET OF THINGS

(Computer Science and Engineering)

Time: 3 Hours Note: i) Question paper consists of Part A, Part B. Max.Mark	s:75		
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.			
iii) In Part B, Answer any one question from each unit. Each question carried and may have a, b as sub questions.	es 10 marks		
and may have a, b as sub questions.			
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PART – A	(25 Marta)		
	(25 Marks)		
1 a) What is the same of LaTO	[2]		
1.a) What is the scope of IoT?	[2]		
b) Give the example of Big Data generated by IoT.	[3]		
c) Write the limitations of Conventional networks.	[2]		
d) What is SDN and List out its advantages?	[3]		
e) Give an example type conversion in Python.	[2]		
f) What is pass control structure in Python?	[3]		
g) List out Linux flavors on which Raspberry Pi works?	[2]		
h) Give LED status in Raspberry and write each status function.	[3]		
i) What is WAMP protocol?	[2]		
j) Write Amazon services for IoT.	[3]		
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PART – B	(50.3.6 . 1 .)		
	(50 Marks)		
2.a) Describe General block diagram of IoT.	F.C		
b) Explain application layer protocols in IoT.	[5+5]		
OR			
3.a) Explain IoT level-2 and compare with IoT level-6.	5.5.53		
b) Elaborate how IoT is useful in smart irrigation.	[5+5]		
A District Annual Market Annua			
4.a) Distinguish between M2M and IoT.	55 51		
b) Explain NFV architecture in detail.	[5+5]		
OR			
5.a) "IoT Management is required", Justify it?	F.551		
b) Explain the architecture of Software Defined Network.	[5+5]		
6 a) Describe the features of Puther language			
6.a) Describe the features of Python language.b) What is JSON? Explain encoding and decoding a message in Python using JSON	J [5+5]		
OR	v. [J⊤J]		

Explain function creation and definition in Python and illustrate with an example. [5+5]

What is List in Python and explain its operations.

7.a

b)

8.a)	Explain components of Raspberry Pi Board.	
b)	Give code for LED on/off on Raspberry Pi using switch.	[5+5]
	OR	
9.a)	Describe Raspberry Pi interfaces in detail.	
b)	List out and explain functions used in Raspberry Pi.	[5+5]
		[]
10.a)	Explain key elements of WAMP protocol.	
b)	Describe the interactions in WAMP protocol.	[5+5]
0)	OR	[3+3]
11.a)	Analyze Django template in detail.	
		[5.5]
b)	Write the services of Amazon EC2.	[5+5]
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