

School: School of Engineering and Technology

Program:

BTech-Information Technology

Year: 4t

Semester: 7th

Examination:

End Semester Examination

Examination.

Examination year: December - 2021

Course Code: IT408	Course Name: Internet of Things Cloud Platform	
Date:	09/12/2021	Marks: 40
Time:	11:30 AM to 1:30 PM	Total Pages: 1

Instructions for students:

- 1. This question paper consists of five main questions with their related sub-questions
- 2. Write answers for questions belonging to same question/sub-question together. Do not answer questions haphazardly
- 3. Make assumptions wherever required
- 4. Manage time effectively during examination so that paper is completed in specified duration

Q 1. [A] Attempt the following questions: [1 mark each]	со	BTL	(5)
1.	VMM uses OS as an intermediary for interacting with		1,2	1
	hardware.	CO1		
1.	a. Type 1 b. Type 2	CO2		
	c. Type 3 d. Type 4			
2.	Thingspeak combines	CO1	1,2,3	1
	a. IoT device b. End user application			
	c. Analytics d. All of the above			
	Data center network is a part of SDN plane.		1,2	1
3.	a. Data b. Control	CO4		
	c. Application d. All of the above			_
	Which of these is not a part of AWS suite for IoT cloud?		1,2,3	1
4.	a. Big query b. Greengrass	CO3		
	c. IoT Analytics d. Free RTOS			
	Which of these is an SDN data plane protocol.		1,2	1
5.	a. MAC b. IST	CO4		
	c. TCP/UDP d. All options are correct			
Q 1.	Q 1. [B] Define the following terms (Any 5): [1 mark each]		(5)
1.	Cloud provider	CO1	1,2	1
		CO2		
2.	Southbound Interfaces		1,2	1
3.	NFV		1,2	1
4.	Hypervisor	CO1	1,2	1
		CO2		
5.	SaaS		1,2	1
6.	REST API	CO3	1,2,3	1
Q 2.	Short answer questions [Any 5]: [2 marks each]			(1
1.	Explain SDN architecture	CO4	1,2	2
2.	What is serverless computing?	CO3	1,2,3	2
3.	What is micro-batch analysis?	CO2	1,2,3	2
		CO3		
4.	Explain Cloud Computing reference architecture defined by NIST.		1,2,3	2
5.	Explain different technologies provided by MS Azure for implementing cloud		1,2	2
	for the IoT.			
6.	What is nested flow in terms of OpenFlow?	CO4	1,2,3	2

21. [10 marks each]			(20)				
	Answer in detail [Any 2]: [10 marks each]	CO3	1,2,3	1			
1.	Explain any one use-case of Google laaS.		, ,	0			
	2. How is co-operation among SDN controllers achieved in a complex domain?	CO4	1,2,3,4	1			
				0			
	Explain in detail.	CO3	1,2,3	1			
3.	Explain any one use-case of Azure PaaS.	003	1,2,3	0			
	End of Question Paper						
All the Best							