A Reg. No.:	
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Question Paper Code: 99C04

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

			Elective		
		Computer Scienc	e and Business Sys	tems	
	19UCB904	- CLOUD MICR	OSERVICES ANI	O APPLICATION	
		(Regi	ılations 2019)		
Dur	ation: Three hours			Maximum: 100) Marks
		Answer	ALL Questions		
			$10 \times 1 = 10 \text{ Marks}$	J	
1.	Cloud computing is a and offering them as	•		cal resources	CO1-U
	(a) cloud	(b) real	(c) virtual	(d) none of the me	ntioned
2.	Which one of the following is Cloud Platform by Amazon?				CO1- U
	(a) Azure	(b) AWS	(c) Cloudera	(d) All of the men	tioned
3.	helps a user to	have remote acce	ess to an application	from a server.	CO1- U
	(a) Application virtua	alization	(b) Network vi	rtualization	
	(c) Desktop virtualiza	ation	(d) Storage vir	tualization	
4.	Creating more logic called	al IT resources,	within one physic	al system is	CO1- U
	(a) Load balancing	(b) Hypervisor	(c) Virtualiza	ation (d) No	one of these
5.	Which of the following	ng is not the type o	of an Http requests?		CO1- U
	(a) GET	(b) HEAD	(c) PATCH	(d) OI	PTION
6.	Complexity of develo			•	CO1- U
	(a) Monolithic	(b) Micro servic	es (c) both of th	ne above (d) none or	f the above
7.	A Docker registry is a	a place to store and	d distribute Docker.		CO1- U
	(a) Codes	(b) Images	(c) Files	(d) All of the a	bove

8.		Comma	nd is used for stopping	a running container.		C	01 - U	
	(a) \$	docker kill	(b) \$docker rm	(c) \$docker stop	(d) \$d	locker	start	
9.	Kub	ernetes Network	proxy runs on which	node ?		C	CO1-U	
	(a) I	Master Node	(b) Worker Node	(c) CIDR Node	(d) Bo	(d) Both (a) & (b		
10.	Kub	ernetes cluster d	ata is stored in	_		C	O1- U	
	(a) I	(a) Etcd (b) Kubelet (c) Kube-apiserver		(d) No	one of	them		
			PART - B (5 :	x 2= 10 Marks)				
11.		ntion what is the puting?	ne difference between	elasticity and scalability	y in cloud	l CC) 1- U	
12.	List	out the benefits	of virtualization in the	context of cloud computir	ng?	?? CO1- U		
13.	-	Why is continuous integration/continuous deployment (CI/CD) important in CO1-Unicroservices development for the cloud?						
14.	Dist	inguish between	serverless and contain	er-based microservices in	the cloud?	CC) 1- U	
15.		J	•	a Kubernetes environmen ickly in case of failures?	t, ensuring	, CC)1- U	
			PART – C (5 x 16= 80 Marks)				
16.	(a)		ervice and deployment ith illustrations.	models of a cloud comput	ing CO2	App	(16)	
	(b)	Explain in de Provisioning	_	in Cloud and On-dema	and CO2-	App	(16)	
17.	(a)	Illustrate how vi	rtualization technology s Or	upports the cloud computing	g? CO2-	App	(16)	
	(b)		lization structure for Hy etail about the types of v	pervisor and Xen Architect irtualization	ure CO2-	App	(16)	
18.	(a)	•	letail about the Ch of Microservices archit Or	C ,	and CO1-	·U	(16)	
	(b)	Analyze how A	_	oint entry for all requests?	CO1-	·U	(16)	
19.	(a)	Explain in deta	il about the '12 factor a	app'.	CO1-	·U	(16)	
	(b)	Describe in det	ail about containerizati	on using Docker	CO1-	·U	(16)	

20. (a) Explain in detail about the architecture of Master and worker CO1-U nodes in kubernetes (16)

Or

(b) Write a brief note on Building blocks of kubernetes CO1-U (16)