TO M.								
Reg. No								

B.Tech DEGREE EXAMINATION, NOVEMBER 2023

Sixth & Seventh Semester

18CSE316J - ESSENTIALS IN CLOUD AND DEVOPS

(For the candidates admitted during the academic year 2020 - 2021 & 2021 - 2022)

Note:

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i. Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.

ime	: 3 Hours		Max. N	/larks:	100
PART - A (20 × 1 = 20 Marks) Answer all Questions			Marks BL		СО
1.	Choose among the following, which are cloud.	not related to the services provided by the	1	1	1
	(A) Reliability (C) Ownership	(B) Souring (D) Iaas			
2.	Choose the correct relationship between c (A) One-One (C) Many-One	cloud services and customers. (B) One-Many (D) Many-Many	1	l	1
3.	What is the meaning of region in AWS?(A) A region is a geographical area or collection of data centers.(C) A region is the endpoint for AWS.	(B) A region is an isolated logical data center(D) A region is the physical data center	1	1	1
4.	What capacity of files can you store in S3 (A) 0 bytes- 100 TB (C) 0 bytes- 5 TB	(B) 0 bytes- 50 TB (D) 0 bytes- 25 TB	1	1	1
5.	option is used when we need to mand of the grep command. (A) -e (C) -a	atch multiple patterns in a single invocation (B) -n (D) -i	1	2	2
6.	which positional parameters is used to list (A) \$0 (C) \$*	t all the positional parameters? (B) \$# (D) \$@	1	1	2
7.	If you apply a chmod operation to a file,(A) The file's last change time is updated.(C) File last modification time is updated.	what will happen? (B) The file's last accessed time is updated. (D) File Access modification updated	1	3	2
8.	Which of the following are used to redire (A) <& (C) &	ect stdout and stderr to a file? (B) >& (D) &&	1	2	2
9.	Identify the command to delete all the Terraform apply command. (A) terraform undo (C) terraform delete	he cloud resources built by the previous (B) terraform remove (D) terraform destroy	ş 1	1	3
10.	Which command will update the terrafor (A) init (C) fmt	m file indentation? (B) validate (D) apply	. The state of the	1 27NF68	3

11.	Ansible is based on (A) Pull based (C) Agent based	(B) Idempotency (D) Inconsistency		1	2	3
12.	Which of the below is used to store the out (A) Debug (C) Register	e?	1	2	3	
13.	Which of the following commands can run (A) Docker run (C) Docker start		1	1	4	
14.	Which of the following commands will you (A) Docker list (C) Docker Ps -a	use to list your containers? (B) Docker Ps (D) Docker_container_list		1	1	4
15.	Replication Controllers and Deployment Co (A) Etcd manager (C) API Controller Manager	ontrollers are part of (B) Kubeadm (D) Master Controller Manager		1	2	4
16.	There are types of pods in Kubernetes? (A) 1 (C) 3	(B) 2 (D) 4	30	1	2	4
17.	Which of the following is not a part of the I (A) Operating (C) Build	DevOps lifecycle? (B) Plan (D) Code		1	1	5
18.	What is the use of Git? (A) Containerization tool (C) Version Control System tool	(B) Continuous Integration tool (D) Continuous Monitoring tool		1	1	5
19.	DevOps is an extension of (A) Scrum (C) Water fall model	(B) Scrum Master (D) Agile		1	2	5
20.	Which of the following is not a feature of co (A) Gathering Requirement. (C) Continuous Improvement	ontinuous delivery? (B) Automate Everything (D) Bug Fixes		1	1	5
	PART - B ($5 \times 4 = 20$) Answer any 5 Que	•		Mark	BL	co
21.	Differentiate Iaas with Paas.			4	2	1
22.	Discuss about S3 object storage in AWS.			4	2	1
23.	Define the Chmod command in Linux with	any of its two options.		4	1	2
24.	4. List all the Terraform CLI Commands			4	1	3
25.	5. How do you start, stop, and kill containers in Docker?			4	1	4
26.	6. Summarize the concept of nodes in Kubernetes.			4	2	4
27.	Discuss about the role of configuration man	agement in DevOps.		4	2	5
	PART - C ($5 \times 12 = 60 \text{ Marks}$) Answer all Questions					СО
28.	(a) Explain in detail the various cloud dep (OF (b) Explain about any four AWS Services	2)		12	2	1

29.	(a) List and explain any six Linux commands with examples. (OR)	12	1	2
	(b) Elaborate on Grep command and its various options.		,	
30.	(a) Differentiate the details of Terraform and Ansible. (OR)	12	2	3
	(b) Write an ansible playbook to install and start an Nginx server with necessary steps.			
31.	(a) List and explain the various Docker components in detail. (OR)	12	1	4
	(b) Explain the various K8's services running on the nodes of the Kubernetes and describe the role of each service.	*		
32.	(a) Discuss in detail about the role of CI/CD in DevOps. (OR)	12	2	5
	(b) Explain in detail any version control and continuous integration tools for DevOps.			

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