

Reg. No.

B.Tech. DEGREE EXAMINATION, JUNE 2023
Sixth Semester

18CSE316J – ESSENTIALS IN CLOUD AND DEVOPS
(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

Note:

- (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.
- (ii) **Part - B & Part - C** should be answered in answer booklet.

Time: 3 hours

Max. Marks: 100

PART – A (20 × 1 = 20 Marks)

Answer ALL Questions

- | | Marks | BL | CO | PO |
|--|-------|----|----|----|
| 1. Which one of the following cloud concepts is related to sharing and pooling the resources?
(A) Abstraction (B) Polymorphism
(C) Virtualization (D) Encapsulation | 1 | 1 | 1 | 1 |
| 2. Which of the following is the most important area of concern in cloud computing?
(A) Compute (B) Storage
(C) Security (D) Availability | 1 | 2 | 1 | 1 |
| 3. AWS falls into which type of cloud computing category.
(A) PaaS (B) SaaS
(C) IaaS (D) BaaS | 1 | 1 | 1 | 1 |
| 4. What are the three authentication options offered by AWS?
(A) Username & password, (B) Access key, monitoring, certificate, access keys password
(C) Access keys, password (D) System monitoring and password | 1 | 2 | 1 | 1 |
| 5. Which command removes a directory from directory stack?
(A) dirs (B) popd
(C) pushd (D) lum | 1 | 2 | 1 | 1 |
| 6. Which command sets up short hand for comment (or) command line?
(A) set (B) alias
(C) new (D) echo | 1 | 4 | 1 | 1 |
| 7. Which command creates an environment variable in back scripting?
(A) Export (B) Set
(C) Read (D) Write | 1 | 1 | 1 | 1 |
| 8. Which one of the following is the correct syntax for grep command?
(A) grep options (file names) (B) grep options patterns
(C) grep pattern file name (D) grep options pattern filename | 1 | 1 | 1 | 1 |

9. Terraform is	1	1	1	1
(A) SaaS				
(B) IaaS				
(C) PaaS				
(D) CaaS				
10. Which command initiates current working directory containing terraform configuration files?	1	2	1	1
(A) terraform init				
(B) terraform plan				
(C) terraform destroy				
(D) terraform start				
11. What is the name of the terraform state file?	1	1	1	1
(A) terraform.file				
(B) terraform.ffstate				
(C) terraform.state				
(D) terraform.plan				
12. Which option is used for specifying the variance while running ansible playbook?	1	2	1	1
(A) -d				
(B) -f				
(C) -c				
(D) -e				
13. Which commands lists docker images?	1	1	1	1
(A) dockerimage				
(B) docker_i				
(C) docker_images				
(D) docker images				
14. Which command shows the running processes of a containers?	1	2	1	1
(A) dockerstop [container id]				
(B) dockerlist [container id]				
(C) dockertop [container id]				
(D) dockerps [container id]				
15. I don't want to be my services to be visible outside my cluster? Which service should I re in Kubernetes?	1	1	1	1
(A) ClusterIP				
(B) Load balancer				
(C) External name creation				
(D) Node port				
16. Which master component interacts with etcd in Kubernetes?	1	1	1	1
(A) Kube_scheduler				
(B) Kube_apireceiver				
(C) Kube_controller				
(D) Kube_hypervisor				
17. Devops in an extension of	1	2	1	1
(A) Waterfall model				
(B) Spiral model				
(C) Scrum				
(D) Agile				
18. _____ is a source code management tool.	1	1	1	1
(A) Jenkins				
(B) GIT				
(C) Manen				
(D) Hidson				
19. _____ is not a part of the data structure of a GIT repository.	1	1	1	1
(A) Branch pointer				
(B) Commit object				
(C) Head pointer				
(D) Body element				
20. Which of the following is not a benefit of automation in Devops?	1	1	1	1
(A) Implement manual access				
(B) Enable anyone to perform tacks				
(C) Enable speed reliability and consistency				
(D) Enable versioning				

PART – B (5 × 4 = 20 Marks)

Answer ANY FIVE Questions

Marks BL CO PO

21. List and explain the various cloud deployment models.	4	1	1	1
22. Discuss on the various computing tools in AWS platform.	4	2	1	2
23. Compare and contrast on EC2 and S ₃ services?	4	1	1	1
24. List and define any four commands in bach scripting.	4	1	1	1
25. Describe the GREP command with an example.	4	2	1	1
26. Discuss on terraform state file.	4	3	1	2
27. Compare and contrast between devops and agile methodology.	4	1	1	1

PART – C (5 × 12 = 60 Marks)

Answer ALL Questions

Marks BL CO PO

28. a. Explain the various cloud computing models with a neat sketch.	12	1	1	3
(OR)				
b. List and explain the various storage classes in S ₃ .	12	2	3	3
29. a. Write a bach script to check a person can vote (or) not, using any conditional statement. Explain the execution procedure for the same.	12	3	1	2
(OR)				
b. Discuss in detail an usage patterns of GREP command.	12	2	1	3
30. a. Explain the terraform life cycle with a neat sketch.	12	3	2	3
(OR)				
b. Describe in detail on anisble play book.	12	3	2	3
31. a. Explain docker images with suitable example.	12	2	3	1
(OR)				
b. Describe in detail on kubernets logging and monitoring process.	12	1	3	1
32. a. Explain the various concepts used in devops.	12	1	2	1
(OR)				
b. Write short notes on		2	2	1
(i) Jenking	6			
(ii) GIT	6			

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