Question Paper Code	12468

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023
Fifth Semester
Computer Science and Business Systems
20CBEL502 - CLOUD, MICRO SERVICES AND APPLICATION WITH LABORATORY
(Regulations 2020)

Duration: 3 Hours   Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks, K-Level, CO
1.	List down the types of cloud based on the deployment model.	*2,K1,CO1*
2.	What is cloud bursting?	*2,K1,CO1*
3.	Define APIfication.	*2,K1,CO2*
4.	State the difference between normal website and devportal.	*2,K2,CO2*
5.	Why we need DevOps?	*2,K1,CO3*
6.	List some containerized applications.	*2,K1,CO3*
7.	What is Identity and Access Management (IAM)?	*2,K1,CO4*
8.	What are the steps followed in Security operations work flow?	*2,K1,CO4*
9.	List some commonly used application deployment and testing patterns.	*2,K1,CO5*
10.	List five use cases of Python in the real tie application.	*2,K1,CO5*

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11.	a)	Explain in detail about the IaaS.	*13,K2,CO1*
		OR	
	b)	Explain the structure of Openstack along with its components.	*13,K2,CO1*
12.	a)	Explain in detail about the cloud native application.	*13,K2,CO2*
		OR	
	b)	What is Spring Boot and explain it in detail about the Spring Boot.	*13,K2,CO2*
13.	a)	Summarize the Docker architecture.	*13,K2,CO3*
		OR	
	b)	Explain in detail about Kubernetes.	*13,K2,CO3*

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **12468**

14. a) Explain in detail about the Infrastructure Security at the Host Level in Cloud Computing. *13,K2,CO4*

   OR

   b) Explain in detail about the Security Compliance and Regulations. *13,K2,CO4*

15. a) Illustrate how to develop a cloud-based application. *13,K2,CO5*

   OR

   b) Explain about the best practices to keep deployment and testing risks to a minimum. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) (i) Explain in detail about cloud service provider tools. *8,K2,CO4*

   (ii) What are three types of Python framework and explain. *7,K2,CO5*

   OR

   b) (i) Summarize the design principles of security in a distributed system. *8,K2,CO4*

   (ii) Explain about five Python frameworks. *7,K2,CO5*