B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023
Seventh Semester
Computer Science and Engineering
CS8791 - CLOUD COMPUTING
(Regulations 2017)

Duration: 3 Hours   Max. Marks: 100

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

*Marks,
K-Level, CO*

1.	Define Cloud Computing.	*2,K1,CO1*
2.	List any four characteristics of cloud computing.	*2,K1,CO1*
3.	Compare full virtualization with para virtualization.	*2,K2,CO2*
4.	State disaster recovery.	*2,K1,CO2*
5.	Infer Hybrid cloud.	*2,K2,CO3*
6.	Outline the advantage of storage as a service.	*2,K2,CO3*
7.	Why resource management is required in cloud?	*2,K1,CO4*
8.	What is security governance?	*2,K1,CO4*
9.	What do you mean by MapReduce function?	*2,K1,CO5*
10.	Recall the benefits of cloud federation.	*2,K1,CO5*

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

11. a) Explain in detail about underlying principles of Parallel and Distributed Computing.   *13,K2,CO1*

OR

b) (i) Summarize the importance of cloud computing in the internet era.   *5,K2,CO1*

(ii) Explain in detail about Elasticity in Cloud and On-demand Provisioning.   *8,K2,CO1*

12. a) Elaborate about the supports of virtualization technology in the cloud computing.   *13,K2,CO2*

OR

b) Discuss in detail about virtualization in CPU, I/O and memory devices and suggest the user to overridden for efficient utilization of cloud services.   *13,K2,CO2*

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **12268**

13. a) Explain the various Layered Cloud Architectural Development design for effective cloud computing environment. *13,K2,CO3*

OR

b) Explain about the cloud deployment models with suitable example for each of them. *13,K2,CO3*

14. a) Examine the resource management in cloud computing and explain the resource allocation and monitoring in details. *13,K2,CO4*

OR

b) Discuss the various cloud security challenges and give the detailed note of them. *13,K2,CO4*

15. a) Explain in detail about Google App Engine infrastructure and programming model. *13,K2,CO5*

OR

b) Discuss in detail about the four levels of federation in cloud. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Analyze the software distribution model in which applications are hosted by a vendor or service provider and made available to customers over a network, typically the Internet. *15,K4,CO6*

OR

b) I am starting a new company to analyze videos. I'll need a lot of storage as videos consume quite a bit of disk. Additionally, I'll need sample computational power, possibly running applications concurrently. I have discovered some very good tools to facilitate development in Windows but the deployment will be more efficiently handled in the Linux environment. All the pointers say that I need to move to cloud. I have found that SaaS is the most attractive service, followed by PaaS and IaaS, in that order. Given the above information, which service do you recommend? Why? *15,K4,CO6*