

**B.E./B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022**

Seventh Semester

**Computer Science and Engineering**

(Common to Information Technology)

**CS8791 - CLOUD COMPUTING**

(Regulations 2017)

Duration: 3 Hours

Max. Marks: 100

**PART - A (10 × 2 = 20 Marks)**

Answer ALL Questions

- |   | <i>Marks,<br/>K-Level, CO</i> |
|---|-------------------------------|
| 1. Give the advantages of cloud computing.  | 2,K1,CO1                      |
| 2. Define cloud elasticity.   | 2,K1,CO1                      |
| 3. List the principles of SOA.  | 2,K1,CO2                      |
| 4. What do you mean by virtualization of CPU?                                       | 2,K1,CO2                      |
| 5. Why do we need cloud storage?  | 2,K2,CO3                      |
| 6. Outline the key challenges associated in the process of storing images in cloud. | 2,K2,CO3                      |
| 7. What is meant by security governance?  | 2,K1,CO4                      |
| 8. Define Intercloud.   | 2,K1,CO4                      |
| 9. Differentiate Name node and Data node.   | 2,K1,CO5                      |
| 10. State and discover the core components of AppEngine.                            | 2,K2,CO6                      |

**PART - B (5 × 13 = 65 Marks)**

Answer ALL Questions

11. a) Write about the Elasticity in cloud and On-demand provisioning in detailed manner. 13, K2,CO1

**OR**

- b) What is Cloud Computing? Explain the various characteristics of Cloud computing. 13, K2,CO1

12. a) Show the WSDL document consisting of abstract and concrete parts that collectively describe a service endpoint. 13, K2,CO2

**OR**

- b) Describe in detail about the virtualization tools and its mechanism. 13, K2,CO2

13. a) Discuss the features of software as a Service and explain in detail about SaaS with example. 13,K2,C03

**OR**

- b) Explain with neat diagram about the Cloud Storage Providers and Amazon Simple Storage Service S3. 13,K2,C03

14. a) i) Compose in detail about the aspects of data security. 7,K2,CO4  
ii) Generalize on Data Security Mitigation. 6,K2,CO4

**OR**

- b) Give brief description about Resource Provisioning and Resource Provisioning Methods. 13,K2,CO4

15. a) Construct the design of Open Stack Nova system architecture and describe in detail. 13,K2,CO6

**OR**

- b) Discuss in detail about the working process of Google App Engine with neat sketch. 13,K1,CO5

**PART C (1 × 15 = 15 Marks)**

16. a) Explain the security architecture design of a cloud environment and relate how it can be made possible to include such measures in a typical banking scenario. 15,K2,CO4

**OR**

- b) Explain the HDFS concepts with suitable illustrations. Develop a word count application with Hadoop Map Reduce programming model. 15,K2,CO6