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Reg. No. :

Question Paper Code : 90425

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

Seventh/Eighth Semester

Computer Science and Engineering

CS 8791 — CLOUD COMPUTING

(Common to Computer and Communication Engineering/
Information Technology)

(Regulations 2017)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the use of elasticity in cloud?

2. Define on-demand provisioning.

3. Write the two major roles in SOA.

4. Discuss the purpose of Publish-Subscribe model.

5. Why do we need a hybrid cloud? Justify.

6. Give the advantages of storage-as-a-service.

7. State the different Resource Provisioning methods.

8. Illustrate password assurance testing.

9. Give some of the application of GAE. What are the benefits of cloud federation?

10. What is use of the Google SDC Secure Data Connection? What are the benefits of cloud federation?

PART B — (5 × 13 = 65 marks)

11. (a) Illustrate in detail about parallel and distributed programming models. (13)

Or

(b) Explain about evolution of cloud computing in detail. (13)

12. (a) Describe in detail about the REST a software architecture style for distributed systems. (13)

Or

(b) Illustrate the migration steps and performance effects involved in live VM. (13)

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

Or

(b) (i) Compare and Contrast: Public, Private and Hybrid clouds. (8)

(ii) List the architectural design challenges in cloud environment. (5)

14. (a) Discuss in detail about the mechanisms involved in software-as-a-service security. (13)

Or

(b) Describe the Resource Provisioning and Platform Deployment. (13)

15. (a) Discuss Map Reduce with suitable diagrams. (13)

Or

(b) Explain in detail Extensible Messaging and Presence Protocol. (7+6)

PART C — (1 × 15 = 15 marks)

16. (a) (i) What is virtualization? List the various levels of virtualization? Explain. (10)

(ii) How disaster recovery is possible with virtualization? Explain. (5)

Or

(b) Elaborate on any one cloud environment with detailed architecture.

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