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Question Paper Code : R 80462

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2025.

Fifth/Sixth/Seventh/Eighth Semester

Computer Science and Engineering

CCS335 — CLOUD COMPUTING

(Common to : Computer Science and Design/Computer Science and Engineering (Artificial Intelligence and Machine Learning)/Computer Science and Engineering (Cyber Security)/Computer and Communication Engineering/Electrical and Electronics Engineering/Electronics and Communication Engineering/Artificial Intelligence and Data Science/Computer Science and Business Systems/Information Technology)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define private cloud, public cloud and hybrid cloud.
2. Define Cloud Computing as per NIST.
3. What is a Hypervisor?
4. Why only critical instructions are trapped into the VMM?
5. Differentiate containers and virtual machines.
6. Give short note on storage virtualization.
7. List the main services offered by AWS.
8. Write about OpenStack.
9. List some of the security challenges of cloud computing.
10. Define hyperjacking in the cloud environment.

PART B — (5 × 13 = 65 marks)

11. (a) Write short notes on system models for distributed and cloud computing.

Or

- (b) Write short notes on:

(i) Features of a cloud that are essential to enable services to the customer. (8)

(ii) Challenges and risks associated with cloud computing. (5)

12. (a) Explain the taxonomy of virtual machine with suitable classification.

Or

- (b) Discuss in detail about Para and Full virtualization architectures and compare their performance.

13. (a) Describe the component and workflow process in the docker architecture with neat diagram.

Or

- (b) Demonstrate different cloud resource provisioning methods.

14. (a) Write in brief about Amazon Web Services architecture and functional modules.

Or

- (b) Describe in detail the Eucalyptus cloud software Environment.

15. (a) Brief short notes on the following:

(i) Cloud Data security (7)

(ii) VM migration attack. (6)

Or

- (b) Describe about IAM in cloud with architecture and challenges.

PART C — (1 × 15 = 15 marks)

16. (a) Justify how virtualization enhances the hardware resource utilization and also elaborate example systems implemented at different levels of virtualization.

Or

- (b) Illustrate in detail about how to set up a private cloud for any organization using any one of the cloud environments.
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