

APRIL 2023

**57708/MC42B/IT42A/
CS42A**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer any TEN questions.

1. Mention the business benefits of Cloud computing.
2. What is Cloud computing stack?
3. Define the term — Service Level Agreement.
4. Specify the types of Service Level Agreement.
5. Define the term — Deployment model.
6. Define the term — Virtualization.
7. What is Machine image?
8. Define the term — MapReduce.
9. What is meant by Thresholding in Resource management?
10. What is Utility-based model for cloud-based web services?

11. What is Media Cloud?
12. What is Security Cloud?

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Discuss on Cloud computing need, characteristics and challenges.
14. Describe the different types of Cloud.
15. Explain the Life cycle of Service Level Agreement and its management in Cloud.
16. Discuss on the existing Cloud applications and the opportunities for new applications.
17. Describe about the Architectural Styles for Cloud applications.
18. Explain the Policies and Mechanisms for Resource management.
19. Discuss on the method of Cloud application development using Google App Engine API and Facebook API.

PART C — (4 × 10 = 40 marks)

Answer any FOUR questions.

20. Explain the fundamental and advanced Cloud architectures.
 21. Discuss on the Cloud service and Deployment models.
 22. Describe about the Cloud Service Virtualization and the importance of Hypervisors.
 23. Explain the concept of Workflows, coordination of multiple activities and Coordination based on a State machine model.
 24. Discuss on Resource bundling, Combinatorial auctions and Scheduling algorithms.
 25. Compare and describe the architecture of Amazon Web services, Google AppEngine and Microsoft Azure.
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