602205

August/September 2022
MCA II SEMESTER
Cloud Computing (MCA-20-110)

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) Differentiate between Distributed and Cloud Computing in brief. (1.5)

    (b) Write short note on Cloud Security Alliance? (1.5)

    (c) What is Multitenancy? (1.5)

    (d) Why is API necessary in cloud computing? (1.5)

    (e) Name any 2 services provided by Microsoft AZURE. (1.5)

(f) What is Service Level Agreement (SLA)? (1.5)

(g) Differentiate between HBase and Dynamo. (1.5)

(h) Write and explain GRC in brief. (1.5)

(i) Which services do Google App Engine provides?

(1.5)

(j) What are Mashups? (1.5)

PART-B

2. (a) Write and explain all the characteristics of cloud environment. (5)

(b) Explain all the deployment for Cloud Computing with proper examples. (10)

3. (a) Explain any *one:* Amazon EC2 or Microsoft Azure.

(5)

(b) What are Web Services? Explain their characteristics.

(5)

(c) Write short note on AJAX technologies. (5)

4. (a) What is a Hypervisor? Explain its types with diagram and example. (5)

(b) What is virtualization in cloud computing? Outline the characteristics of server virtualization and application virtualization. (10)

5. (a) Differentiate between SOAP and REST. (5)

(b) Explain what do you understand by service models in cloud? Explain all in detail with examples. (10)

6. (a) Explain the shared responsibility model for security in cloud environment. (7)

(b) What do you understand by IAM in cloud? Explain the methods for same. (8)

7. (a) Explain map reduce programming model with proper example and architecture of the same. (10)

(b) Explain Load balancing and dynamic reconfiguration in brief. (5)

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