Code:19IT4602B

III B.Tech - II Semester – Regular Examinations – JUNE 2022

CLOUD COMPUTING
(INFORMATION TECHNOLOGY)

Duration: 3 hours   Max. Marks: 70

Note: 1. This question paper contains two Parts A and B.
2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
4. All parts of Question paper must be answered in one place.

PART – A

1. a) What are the merits of Cloud Computing?

b) Distinguish between Multitenancy Vs. Virtualization.

c) List various cloud storage device mechanisms and explain.

d) Draw the conceptual architecture for Audit monitor in cloud computing.

e) What is Redundant Storage Architecture? Explain briefly.

PART – B
UNIT – I

2. a) Illustrate the challenges and risks of Cloud Computing.   6 M
    b) List the goals and benefits of cloud computing and explain.   6 M

OR

3. a) Write about history of Cloud Computing.   6 M
    b) Compare various Cloud Deployment Models with neat diagrams.   6 M

UNIT – II

4. a) Describe the role of web technology in cloud computing with example.   6 M

    b) In detail explain the significance of web-based services in establishing cloud computing environment with examples.   6 M

<div align="center">OR</div>

5. Explain the various components involved in data center technology in detail with neat sketch.   12 M

UNIT-III

6. List and explain the functionalities of various monitor agents involved in cloud usage monitor with examples.   12 M

<div align="center">OR</div>

7. a) Explain the concept of Resource replication.   6 M

    b) List the cloud consumer and cloud provider logical network perimeters elements involved in establishing Cloud computing environment. Explain.   6 M

UNIT – IV

8. a) Demonstrate the mechanism of the failover system in Cloud computing with examples.   6 M

    b) Elucidate the mechanism of SLA Monitor with example.   6 M

<div align="center">OR</div>

9. Illustrate the need of state management database with examples.   12 M

UNIT – V

10. a) Describe Resource Pooling Architecture and its components. 6 M

    b) Explain how you can build an IaaS Environment to manage delivery services in Cloud computing environment with neat sketch. 6 M

OR

11. a) List the IT resource provisioning considerations which are involved in working with PaaS Environments. 6 M

    b) Explain about Elastic Resource Capacity Architecture. 6 M