(Time: 3hours) **(Total Marks: 80)**

N.B.: 1. Question No. 1 is compulsory.

2. Answer any three out of the remaining questions.

3. Assume suitable data if necessary.

4. Figures to the right indicate full marks.

Q1. Attempt the following (any 4): (20)

a. Explain the scenarios for Deployment models

b. List and Describe types of Non relational Databases

c. Explain the Use of Service Models

d. Compare Object Storage Vs Block Storage

e. Describe Relevant IAM Standards and Protocols for Cloud Services

Q2. Attempt the following:

a. Explain different implementation levels of virtualization and its uses. (10)

b. Compare and differentiate between Xen architecture and KVM architecture. (10)

Q3. Attempt the following:

a. Differentiate between Database as a Service and Storage as a Service (10)

b. Explain in detail about Identity management as a Service (10)

Q4. Attempt the following:

a. Role of Elastic Network Interfaces and security groups in Virtual Private Cloud (10)

b. Explain what is S3 along with its the advantages and disadvantages ? why Glacier are required? (10)

Q5. Attempt the following:

a. List and Explain the Components and modes of Operations of Openstack cloud platform. (10)

b. State the benefits and challenges of mobile cloud computing. (10)

Q6. Write short notes on (any 2): (20)

a. DynamoDB

b. Serverless Computing

c. Privacy in the Cloud Security

d. Disaster Recovery as a service

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