

(3 hours)

[80 marks]

NOTE: Question No 1 is compulsory. Attempt any three questions from remaining.
Assume suitable data if necessary.
Draw neat labelled diagrams wherever needed.

- Q.1. a) Explain the NIST cloud model. 10M
- b) State the significance of hypervisors and explain type 1 and type 2 hypervisors in detail. 10M
- Q.2. a) Explain the implementation levels of virtualization 10M
- b) Explain the SPI cloud service model. 10M
- Q.3. a) Explain the components and architecture of openstack. 10M
- b) Explain Google file System in detail. 10M
- Q.4. a) Differentiate between AWS S3 storage and Glacier Storage. 10M
- b) What are the types of instances of Amazon EC2? Explain the AWS EC2 instance life cycle. 10M
- Q.5. a) Compare AWS and openstack with respect to type of deployment, services supported and their components. 10M
- b) Explain the significance of network interface, security group and ACL for Amazon VPC. 10M
- Q.6. Write Short Notes on: (Any Four) 20M
- Cloud Cube Model
 - Anything as a service
 - Benefits and challenges of mobile cloud computing
 - Virtualization Taxonomy
 - Cloud Storage Gateway
 - Cloud Watch