

Duration: 3Hrs

Marks:80

N.B. (1) Question no. 1 is compulsory.

(2) Attempt any three from remaining five questions.

Q1. Solve any four

- a. Compare cloud computing service models 05
- b. Compare public and private cloud 05
- c. Explain benefits of Cloud computing for an educational institute. 05
- d. What is XEN? Discuss the elements of virtualization. 05
- e. what is hypervisor? What are its functions? List the types of hypervisors with examples. 05

Q2.

- a. Explain full virtualization and paravirtualization with neat diagrams. 10
- b. Explain Infrastructure-as-a-Service (SaaS) with suitable examples. 10

Q3.

- a. List the components of open stack? Explain Open stack architecture with its services and modes of operations. 10
- b. List and discuss the implementation level of virtualization with neat diagram 10

Q4.

- a. Explain AAA model with neat diagram and examples 10
- b. Explain cloud applications in healthcare system. Explain how data analytics is performed on cloud. 10

Q5.

- a. Explain the architecture of Mobile Cloud Computing along with the Benefits and challenges of Mobile Cloud computing? 10
- b. Explain Eucalyptus opensource cloud architecture with a neat diagram. 10

Q6. Write a note on (any 4) 20

1. Storage services offered by any cloud vendor
2. Cloud security
3. Identity management as service
4. Software as a service
5. Virtualization
6. Cloud migration techniques
