

(Time: 3 hrs)

(Total Marks: 80)

- N.B. 1. Question no 1 is compulsory, solve any 3 questions from remaining 5 questions.**
2. Assume Suitable data whenever necessary.
3. Figures in the right indicate full marks.

- Q 1) a) Compare various cloud service models. (05)
 b) Write a note on Amazon Web Service (AWS) (05)
 b) List the benefits associated with Virtualization? (05)
 d) How cloud firewall is different from a traditional firewall? (05)
- Q 2) a) Explain the architecture of Xen hypervisor in detail (10)
 b) What is cloud computing? Differentiate between various cloud deployments models. (10)
- Q 3) a) What are the benefits of public cloud for small and medium business (SMB) Organizations? (10)
 b) What do you understand by Service Oriented Architecture (SOA)? Explain how it supports cloud computing? (10)
- Q 4) a) What are the challenges with cloud data security? (10)
 b) Explain AAA model for cloud computing in detail. (10)
- Q 5) a) Explain GFS file system of cloud in detail, also specify how Bigtable reside on GFS. (10)
 b) Draw and explain the architecture of mobile cloud computing. Also list its challenges and benefits. (10)
- Q 6) Write a note on **(any two)** (20)
 (a) Google's no SQL system
 (b) Eucalyptus Architecture
 (c) Open Stack Architecture