2053
B.E. (Information Technology) Eighth Semester
IT-803(a): Cloud Computing

Time allowed: 3 Hours   Max. Marks: 50

NOTE: *Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.*

x-x-x

I.   Define the following:-

   a) Network Security

   b) Cloud management layer

   c) Storage Virtualization

   d) Service Hijacking

   e) Data Breaching   (5x2)

UNIT - I

II. According to NIST Cloud reference model, discuss its essential characteristics and different service models.   (10)

III. a) Why is there need of VM migration? Explain the different VM migration techniques.

   b) Why virtualization is so important in cloud computing? Outline the characteristics of server virtualization and application virtualization.   (4+6)

IV. What are different deployment models of cloud? Discuss the implementation of these deployment models using Openstack.   (10)

UNIT - II

V.   What is multi cloud management platform? How RightScale helpful in implementing the multi-cloud?   (10)

VI. What are the various identity and access management practices followed for authentication, authorization, and auditing of the users accessing cloud services?   (10)

VII. a) Why Big data analytics on cloud is important? Justify your answer.

   b) How cloud computing is beneficial in setting up the business for an organization?   (5+5)

x-x-x