

EIGHTH SEMESTER B. TECH DEGREE EXAMINATION
(2013 scheme)
13.804.2 CLOUD COMPUTING (FR) (Elective III)

Time: 3 Hours

Max Marks: 100

PART –A

Answer **all** questions; **each** question carries 4 marks.

1. Full virtualization is not ideal. Why?
2. What are the major categories of P2P Network Families?
3. Give examples for events that would have to be handled in an autonomic system.
4. What is the role of Cloud Exchange?
5. Explain the levels of implementation of virtualization.

(5 X 4 = 20 marks)

PART –B

MODULE –I

6. a) Illustrate and explain the fundamental components introduced in cloud reference model. **(10 mark)**
b) What are the different types of cloud service? Explain each with example. **(10 mark)**

OR

7. a) Explain different models of deployment in cloud computing. **(10 mark)**
b) What makes cloud computing so interesting to IT stake holders and research practitioners? Explain it by listing essential cloud computing environment and cloud service requirements. **(10 mark)**

MODULE -II

8. a) How all sensitive instructions of the guest OS and its applications are trapped in the VMM? **(10 mark)**
b) How virtualized data centers ensure trust management? **(10 mark)**

OR

9. a) Explain the steps involved in live migration of VM. **(10 mark)**
b) What is host based virtualization? What are the advantages and disadvantages of it? **(10 mark)**

MODULE III

10. a) What are the different cloud architectural design challenges? **(10 mark)**
b) Explain the different resource provisioning methods in cloud computing? **(10 mark)**

OR

11. a) With a neat diagram explain the layered architectural development of the cloud platform. **(10 mark)**
b) Explain the six layers of cloud services and their providers **(10 mark)**

MODULE IV

12. a) Examine the detective, preventative, and best practice controls to ensure that virtualization doesn't break the security posture of the company. **(10 mark)**
b) What is identity management and how it is implemented? **(10 mark)**

OR

13. a) Briefly describe the factors that affect the implementation and performance of cloud security architecture. **(20 mark)**