

(3 Hours)

Total Marks: 80

Note:

1. Question No.1 is Compulsory.
2. Attempt any 3 questions out of the remaining Questions.
3. Make suitable Assumptions whenever necessary.
4. All question carry equal marks.

- Q 1.** Attempt any four.
- a) What is Cloud Cube Model? List characteristics of Cloud Computing. [5]
  - b) What are the different cloud security challenges? [5]
  - c) Explain in short Eucalyptus Cloud Architecture. [5]
  - d) Explain in short Database-as-a-Service. [5]
  - e) Explain in short Virtualization at O.S. level. [5]
- Q 2.**
- a) Explain Cloud service models. [10]
  - b) What are the Different General issues in securing cloud? Explain in short. [10]
- Q 3.**
- a) What is VMM? Explain in short CPU virtualization. [10]
  - b) Explain in short secure execution environments? [10]
- Q 4.**
- a) What is hypervisor? Explain in short type xen architecture. [10]
  - b) Discuss Healthcare: ECG analysis in cloud. [10]
- Q 5.**
- a) Explain Platform-as-a-Service (PaaS) with suitable example. [10]
  - b) What is OpenStack? What are the Components of OpenStack? Explain in short. [10]
- Q 6.** Write a detail note on the following. (Any Two)
- a) Components of Eucalyptus
  - b) Mobile cloud computing. [20]
  - c) Multiplayer online gaming.
  - d) Energy aware cloud computing.
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