

Code:- 0103XII CLC0320 (Time: 2½ hours)

[Total Marks: 60]

- N. B.: (1) All questions are compulsory.
(2) Make suitable assumptions wherever necessary and state the assumptions made.
(3) Answers to the same question must be written together.
(4) Numbers to the right indicate marks.
(5) Draw neat labeled diagrams wherever necessary.
(6) Use of Non-programmable calculator is allowed.

1. Attempt any two of the following: 12
 - a. What are cloud computing characteristics?
 - b. Differentiate between different types of virtualization?
 - c. Discuss SaaS maturity models?
 - d. Explain different cloud service deployment models?
2. Attempt any two of the following: 12
 - a. Explain Architecture of Google File System?
 - b. Explain cloud data Security challenges?
 - c. Discuss the use of Hypervisor in Cloud Computing and hypervisors clustering architecture
 - d. Describe Cloud Computing Services
3. Attempt any two of the following: 12
 - a. Short note on Cloud Service Brokerage
 - b. Describe fundamental principles of cloud security design
 - c. Describe virtualization, its types and its benefits
 - d. Explain rapid provisioning architecture
4. Attempt any two of the following: 12
 - a. What are various types of cloud in the industry and its pros and cons
 - b. Explain dynamic failure detection and recovery architecture
 - c. Explain cloud balancing architecture
 - d. Describe different types of hardware virtualization techniques
5. Attempt any two of the following: 12
 - a. Explain SLA management for applications hosted on cloud
 - b. Explain non disruptive service relocation architecture
 - c. Describe cost metrics and price consideration in cloud computing
 - d. Explain zero downtime cloud computing architecture