



CBCS SCHEME

21CS72

Seventh Semester B.E./B.Tech. Degree Examination, June/July 2026 Cloud Computing

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is Cloud Computing? Explain cloud computing reference model. (10 Marks)
- b. Explain in brief the services provided by the following cloud service providers
i) Amazon web services
ii) Manjrasoft Aneka. (10 Marks)

OR

- 2 a. What s Virtuliazation? Explain the characteristics of virtualization. (10 Marks)
- b. Explain with neat diagram, Type – I and Type – II hypervisor. (10 Marks)

Module-2

- 3 a. Explain in detail cloud computing architecture. (10 Marks)
- b. Explain cloud reference model with neat diagram. (10 Marks)

OR

- 4 a. Explain Iaas. Explain its reference implementation with neat diagram. (10 Marks)
- b. Explain with neat diagram, logical organization of the Aneka cloud. (10 Marks)

Module-3

- 5 a. Explain security risks in cloud computing and also explain the importance of a Privacy Impact Assessment (PIA) in cloud environments. (10 Marks)
- b. Explain the role of trust in cloud computing between providers and users. (05 Marks)
- c. What are the key security concerns related to Virtual Machines (VMS) in the cloud. (05 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

OR

- 6 a. Explain the security challenges related to the Operating System (OS) in cloud infrastructure. (10 Marks)
- b. Explain the security risks posed by shared images and management OS in cloud environments. (10 Marks)

Module-4

- 7 a. Describe the compute services offered by AWS and their importance in cloud computing. (10 Marks)
- b. What are AWS storage services, and explain how do they ensure data availability. (10 Marks)

OR

- 8 a. Explain Google Map-reduce infrastructure in detail. (10 Marks)
- b. Explain Big table architecture. (10 Marks)

Module-5

- 9 a. Explain about the storage services of cloud platforms. (10 Marks)
- b. Explain the Google AppEngine platform Architecture in detail. (10 Marks)

OR

- 10 a. Explain ECG analysis in cloud. (10 Marks)
- b. Discuss applications of cloud computing in satellite image processing. (10 Marks)

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