

CBCS SCHEME

21CS72



Seventh Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.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. Define Cloud. Explain Cloud Computing reference model. (10 Marks)
b. Explain characteristics and benefits of cloud computing. (10 Marks)

OR

- 2 a. Explain in brief the services provided by following cloud service provider
i) Amazon Web Service ii) Microsoft Azure (10 Marks)
b. Explain Hadoop service and Manjrasoft Aneka. (10 Marks)

Module-2

- 3 a. Define Virtualization and explain hardware level virtualization with its pro's and con's of virtualization. (10 Marks)
b. Explain the characteristics of the virtualized environment. (10 Marks)

OR

- 4 a. Demonstrate the virtualization with an example and what are its benefits. (06 Marks)
b. Explain how virtualization plays as a core technology for cloud computing and what is the major resolution introduced by web 2.0. (08 Marks)
c. Explain the three major components and advantages that are characterized by virtualized environments. (06 Marks)

Module-3

- 5 a. With neat diagram, explain the cloud computing architecture. (10 Marks)
b. Explain the following in detail :
i) Hardware as service ii) Platform as service iii) Software as service. (10 Marks)

OR

- 6 a. Explain different types of clouds. (10 Marks)
b. Explain the open challenges faced in cloud computing in detail. (10 Marks)

Module-4

- 7 a. Explain cloud security risk in detail. (10 Marks)
b. Explain virtual machine security in detail. (10 Marks)

1 of 2

21CS72

OR

- 8 a. Explain security of virtualization. (10 Marks)
b. Explain security risks posed by a management OS. (10 Marks)

Module-5

- 9 a. Explain the various storage and communication services provided by AWS. (10 Marks)
b. Describe the core components of Google APP Engine. (10 Marks)

OR

- 10 a. Discuss in detail the following media applications of cloud computing technologies:
i) Animoto ii) Maya Rendering with Aneka iii) Video encoding on cloud. (10 Marks)
b. Establish the relationship on how the cloud computing technology can be applied to support ECG monitoring. (10 Marks)

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2 of 2

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.

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