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CBCS SCHEME

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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.***

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.

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 virtulization. **(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)**

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 theory 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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