USN | | | | | | | | | |

21CS72

Seventh Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025
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. With a neat diagram, explain cloud computing and its historical development. **(10 Marks)**
   b. List the characteristics and benefits of cloud computing. **(10 Marks)**

OR

2 a. Explain in brief the services provided by the following cloud service provider:
   i)   Amazon web service
   ii)   Microsoft azure
   iii) Google AppEngine. **(10 Marks)**
   b. Write a note on challenges in cloud computing. **(10 Marks)**

Module-2

3 a. Define virtualization and explain hardware level virtualization with its advantages. **(10 Marks)**
   b. Discuss the taxonomy of virtualization techniques at different levels. **(10 Marks)**

OR

4 a. What are the characteristics of virtualized environment? **(10 Marks)**
   b. Explain with a neat diagram Type-I and Type-II hypervisor. **(10 Marks)**

Module-3

5 a. Explain the different types of cloud. **(10 Marks)**
   b. What is IaaS? Explain its reference implementation with a neat diagram. **(10 Marks)**

OR

6 a. Explain the economics of the cloud. **(10 Marks)**
   b. What does the acronym SaaS mean? How does it relate to cloud computing? **(10 Marks)**

Module-4

7 a. Analyze the various cloud security risks that organization face when utilizing cloud computing services. **(10 Marks)**
   b. Explain the security risks posed by a management OS. **(10 Marks)**

OR

8 a. Discuss the traditional concept of trust and trust necessary for online activities. **(10 Marks)**
   b. Explain in detail virtual machine security. **(10 Marks)**

Module-5

9 a. Describe Amazon EC2 and its basic features. **(10 Marks)**
   b. Analyze how cloud computing technology can be applied to support remote ECG monitoring. **(10 Marks)**

OR

10 a. What is a bucket? What type of storage does it provide? **(10 Marks)**
    b. Examine the core components of AppEngine. **(10 Marks)**

* * * * *