QP Code: D153591	Total Pages: 1	Name:
		Register No.

FIFTH SEMESTER (CUFYUGP) DEGREE EXAMINATION NOVEMBER 2026

COMPUTER SCIENCE

CSC5EJ305(3) CLOUD COMPUTING

2024 Admission onwards

Maximum Time: 2 Hours | **Maximum Marks: 70**

Section A

All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)

1	Define cloud computing. Mention any two essential characteristics of cloud computing.
2	Explain the major components of a cloud computing environment.
3	What are the desired features of cloud computing?
4	Distinguish between public cloud and private cloud.
5	Explain the three major cloud service models.
6	What is a cloud reference model? State its significance.
7	Define a virtual machine. What is the role of a hypervisor?
8	Differentiate between full virtualization and paravirtualization.
9	What is a Docker container? How does it differ from a virtual machine?
10	What are Docker images and repositories?

Section B

All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)

11	Describe the evolution of cloud computing and the major technologies behind its development.
12	Discuss the major components involved in building a cloud computing environment.
13	Explain private, public, hybrid and community cloud deployment models with suitable examples.
14	Explain IaaS, PaaS and SaaS with their characteristics and suitable examples.
15	Explain virtualization and discuss its implementation levels in computing environments.
16	Compare full virtualization, paravirtualization and hardware virtualization.
17	Explain desktop virtualization, network virtualization and storage virtualization.
18	Describe Docker architecture and explain the roles of Engine, images, containers, and repositories.

Section C

Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)

19	Explain cloud architecture, including the reference, deployment, and service models with suitable diagrams and examples.
20	Explain virtualization technologies, including VMs, hypervisors, types, and CPU, memory, and I/O virtualization.