

Code: 20CS4701C

**IV B.Tech - I Semester – Regular Examinations - DECEMBER 2023**

**CLOUD COMPUTING  
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level

CO – Course Outcome

			BL	CO	Max. Marks
<b>UNIT-I</b>					
1	a)	Describe the essential characteristics of Cloud Computing.	L1	CO1	7 M
	b)	What is cloud computing? Describe the vision of cloud computing.	L1	CO1	7 M
<b>OR</b>					
2	a)	What is the need for virtualization? Discuss its role in cloud computing.	L2	CO1	7 M
	b)	Identify the key features of VMware and Microsoft Hyper-V? Choose their suitability for different cloud applications.	L3	CO1	7 M
<b>UNIT-II</b>					
3	a)	Explain the Cloud Reference Model.	L2	CO2	7 M
	b)	Elaborate the term “Software as a Service” related to cloud computing.	L2	CO2	7 M
<b>OR</b>					

4		Compare and contrast the different types of cloud computing deployment models and discuss the key benefits and challenges of each deployment model.	L4	CO2	14 M
<b>UNIT-III</b>					
5	a)	Explain briefly about the ANEKA framework.	L2	CO2	7 M
	b)	Elaborate Anatomy of the Aneka Container.	L2	CO2	7 M
<b>OR</b>					
6	a)	Interpret the key benefits and challenges of deploying Aneka clouds in a private cloud mode.	L3	CO2	7 M
	b)	How can Aneka be used to build and deploy hybrid cloud applications?	L3	CO2	7 M
<b>UNIT-IV</b>					
7	a)	Examine how can cloud applications be used to accelerate the development of new drugs and therapies?	L4	CO3	7 M
	b)	Discuss the benefits of using multiplayer online gaming platforms.	L4	CO3	7 M
<b>OR</b>					
8	a)	Explain types of Cloud ERP Software and their benefits.	L2	CO3	7 M
	b)	How can cloud-based CRM systems are used to improve customer relationships and sales?	L4	CO3	7 M

**UNIT-V**

9	a)	Compare and contrast the different types of AWS compute services.	L4	CO3	7 M
	b)	Explain how Google App Engine can be used to build scalable and reliable web applications.	L2	CO3	7 M

**OR**

10	a)	Describe the application life-cycle on Google App Engine.	L2	CO3	7 M
	b)	Discuss about the Microsoft Azure core concepts.	L2	CO3	7 M