Code No.: CY723OE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Regular) - November- 2023 INTRODUCTION TO CLOUD COMPUTING (CSM)

[Time: 3 Hours] [Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit. Each question

carries 10 marks and may have a, b, c as sub questions.

	PART-A	(20 Marks)
1. a)	Define quantum computing and its principles.	[2M]
b)	What is the purpose of parallel computing?	[2M]
c)	Name the five essential characteristics of cloud computing.	[2M]
d)	Describe how the principles of cloud computing enable scalability and flexibility.	[2M]
e)	Define cloud architecture briefly.	[2M]
f)	Define cloud infrastructure management.	[2M]
g)	Can you list the key characteristics of IaaS?	[2M]
h)	Explain the characteristics of PaaS.	[2M]
i)	What does Amazon Elastic Compute Cloud (EC2) provide to users?	[2M]
j)	What is EMC IT and its role in cloud services?	[2M]
2 \	PART-B	(50 Marks)
2.a)	Explain the concept of parallelism in computing.	[5M]
b)	Describe high performance cloud computing in brief. OR	[5M]
3.a)	List the pros and cons of optical computing in data processing.	[5M]
b)	Compare cluster computing with traditional supercomputers.	[5M]
4.a)	Differentiate cloud service and platform.	[5M]
b)	Propose a cloud application in healthcare.	[5M]
- \	OR	
5.a)	List the principles defining cloud computing.	[5M]
b)	Explain cloud deployment model.	[5M]
6.a)	How does network connectivity function in cloud computing?	[5M]
b)	Design a cloud-based network for a small business.	[5M]
7 -)	OR	
7.a)	Provide examples of applications that run on the cloud.	[5M]
b)	Classify the challenges of managing a multi-cloud environment.	[5M]
8.a)	Name a few well-known PaaS providers.	[5M]
b)	Create a scenario illustrating when SaaS is an ideal solution for a business. OR	[5M]
9.a)	Explain the primary characteristics of PaaS and their role in software development.	[5M]
b)	Explain the differences in pros and cons between PaaS and SaaS.	[5M]
10 -)		
10.a)	What is Amazon Simple Storage Service (S3), and how is it used?	[5M]
b)	Implement Google Cloud Print for a remote workforce. OR	[5M]
11.a)	Briefly describe the key features of Google App Engine.	[5M]
b)	Analyze the pros and cons of EMC IT as a cloud service provider.	[5M]
