Code No.: CY723OE

R20

H.T.No.

R 8

CMR ENGINEERING COLLEGE: : HYDERABAD **UGC AUTONOMOUS**

IV-B.TECH-I-Semester End Examinations (Supply) - Apri- 2024 INTRODUCTION TO CLOUD COMPUTING (CSM)

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

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>	What are the current research trends in optical computing?	[2M]
1. a)	How does grid computing differ from cluster computing?	[2M]
b)	What is the motivation for cloud computing?	[2M]
c) d)	Explain the concept of cloud computing as a service.	[2M]
e)	What is cloud architecture?	[2M]
f)	Explain the anatomy of the cloud.	[2M]
g)	Why IaaS is a suitable choice for businesses?	[2M]
h)	Define PaaS.	[2M]
i)	What is Salesforce's Sales Cloud focused on?	[2M]
j)	Describe the Captiva Cloud Toolkit and its purpose.	[2M]
	PART-B	(50 Marks)
2)	How does high-performance computing achieve faster processing speeds?	[5M]
2.a)	Develop a security strategy for a mobile application.	[5M]
b)	OR	
2 -1	Evaluate fault-tolerance mechanisms in cluster computing.	[5M]
3.a) b)	What are the key components of a distributed computing system?	[5M]
	Describe the five essential characteristics of cloud computing.	[5M]
4.a)	Explain the needs for cloud computing.	[5M]
b)	OR	
5 0)	Compare cloud deployment models and their use cases.	[5M]
5.a)	What motivates businesses to adopt cloud computing?	[5M]
b)		
6.a)	Describe the importance of network connectivity in ensuring the availability of o	cloud [5M]
	racources	[5M]
b)	Design architecture for a scalable cloud-based e-commerce platform.	[SIVI]
	OR	they [5M]
7.a)		[5M]
	interact?	[]
b)	Analyze the key components of cloud architecture.	
0 0)	How does IaaS differ from traditional infrastructure provisioning?	[5M]
8.a) b)	to the contract of the contrac	[5M]
U)	OR	
9.a)	Define SaaS and its primary features.	[5M]
b)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	[5M]
U,	, compare and	

10.a)	at are the core components of Google Cloud Platform? ate a knowledge management system using Salesforce's Knowledge as a Service.	[5M]
U)	OR	553 G
11.a) b)	Explain the concept of cloud storage and its benefits. Evaluate the environmental impact of Amazon EC2 data centers.	[5M] [5M]
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