

**CMR ENGINEERING COLLEGE: : HYDERABAD**  
**UGC AUTONOMOUS**  
**IV-B.TECH-I-Semester End Examinations (Supply) - December- 2025**  
**CLOUD COMPUTING**  
**(CSD,AI&DS)**

**[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)	Differentiate cloud computing and internet.	[2M]
b)	What are different types of distributed computing systems before cloud computing?	[2M]
c)	What is the need for cloud computing?	[2M]
d)	Give the motivation for cloud computing.	[2M]
e)	List the applications on the cloud.	[2M]
f)	What are the different phases of Cloud Migration?	[2M]
g)	What is the role of resource scheduler in IaaS in service layer?	[2M]
h)	List the advantages of SaaS.	[2M]
i)	Enlist the services provided by SAP Labs.	[2M]
j)	What are the basic modules of EMC's Captiva Cloud Toolkit?	[2M]

**PART-B****(50 Marks)**

2. “Quantum Computers are millions of times faster than most powerful supercomputers today”, Justify your answer. [10M]

**OR**

3. a) Discuss in detail about Bio computing and Mobile Computing. [5M]  
 b) What are the five essential characteristics of cloud computing? [5M]

4. Illustrate Cloud deployment models. [10M]

**OR**

5. What is Cloud Computing is a service? Explain its advantages and disadvantages. [10M]

6. Draw the framework of common cloud management platform reference architecture and explain its components. [10M]

**OR**

7. Illustrate Cloud Architecture and anatomy in detail. [10M]

8. Design the architecture of PaaS and SaaS in cloud computing? Also, explain the different categories of PaaS and SaaS with example. [10M]

**OR**

9. What is IAAS? Explain its advantages and disadvantages. [10M]

10. What is virtualization in cloud computing? Outline the characteristics of server virtualization and application virtualization. [10M]

**OR**

11. Describe the IBM Cloud Architecture and Core Services. [10M]

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