

Code No.: DS732PE/AD735PE

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**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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