

**CMR ENGINEERING COLLEGE: : HYDERABAD****UGC AUTONOMOUS****IV–B.TECH–II–Semester End Examinations (Regular) – April - 2025****CLOUD COMPUTING****(Common for IT, CSE)****[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 High-Performance Computing (HPC). [2M]
- b) What is the concept of Parallel computing? [2M]
- c) List the five essential characteristics of Cloud Computing? [2M]
- d) What is Need for Cloud Computing? [2M]
- e) What are the primary layers of Cloud Computing architecture? [2M]
- f) Define managing the cloud. [2M]
- g) What are Characteristics of IaaS? [2M]
- h) Define platform as a service. [2M]
- i) Define EMC. [2M]
- j) What is share point? [2M]

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

2. Discuss the evolution of computing paradigms leading up to Cloud Computing. [10M]
- OR**
3. Explain about the Quantum computing in detail. [10M]
4. Define Cloud Computing and outline its key characteristics. [10M]
- OR**
5. Explain the principles of Cloud Computing and how they contribute to its efficiency. [10M]
6. List and explain the different layers involved in Cloud Computing architecture. [10M]
- OR**
7. Explain the phases of cloud mitigation in detail. [10M]
8. Describe the key characteristics and suitability of IaaS, PaaS and SaaS. [10M]
- OR**
9. Explain the real-world examples where each cloud service model would be most beneficial. [10M]
10. Discuss about the Amazon web services in detail. [10M]
- OR**
11. Explain the features of IBM Cloud Models and their suitability for various business needs. [10M]

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