

Code No.: DS732PE

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H.T.No.

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

IV-B.TECH-I-Semester End Examinations (Regular) - November- 2023

CLOUD COMPUTING

(CSD)

[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 the terms grid computing and quantum computing. [2M]
- b) Compare Distributed Computing with Parallel Computing. [2M]
- c) What is cloud computing? Give a formal definition as per NIST. [2M]
- d) List out and brief the principles of cloud computing. [2M]
- e) List the different applications of cloud computing. [2M]
- f) What are the different phases of Cloud Migration? [2M]
- g) As per NIST give the definition of Infrastructure as a Service. [2M]
- h) Write short notes on the deployment and delivery of cloud service models with a neat diagram. [2M]
- i) Write a brief notes on Google Cloud storage. [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 Nano computing and Optical Computing. [5M]
 - b) Why is it necessary to understand the various computing paradigms? [5M]
4. Describe the five essential characteristics of Cloud Computing. [10M]
- OR**
- 5.a) Elaborate the term "Software as a Service" related to cloud computing. [6M]
 - b) Give the drawbacks of Cloud Computing paradigm. [4M]
6. Describe the role of Network Connectivity in Cloud Computing. [10M]
- OR**
7. With a neat sketch, explain the cloud Architecture layer wise in detail. [10M]
- 8.a) What are the pros and cons of SaaS? [5M]
 - b) What are the suitable conditions of PaaS? Discuss briefly. [5M]
- OR**
- 9.a) What are the Services provided by PaaS? Discuss in detail. [5M]
 - b) Mention the characteristics of SaaS. [5M]
- 10.a) List out and brief the features of Amazon Simple Queue Service. [5M]
 - b) Explain the cloud services provided by Windows Azure. [5M]
- OR**
- 11.a) Briefly explain about the architecture of IBM Smart Cloud with neat architectural diagram. [5M]
 - b) Give a brief summary on various cloud services offered by salesforce. [5M]
