

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

IV–B.TECH–I–Semester End Examinations (Supply) – April - 2025

INTRODUCTION TO CLOUD COMPUTING

(CSM)

[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 Nano Computing. [2M]
- b) How parallel computing differs from Distributed computing? [2M]
- c) State the need for cloud computing. [2M]
- d) What are the characteristics of cloud computing? [2M]
- e) What is public cloud access networking? [2M]
- f) Define cloud migration. [2M]
- g) Define PaaS. [2M]
- h) What are the characteristics of IaaS? [2M]
- i) What is the main purpose of Google Cloud Connect? [2M]
- j) Write a short note on Amazon simple storage service. [2M]

PART-B

(50 Marks)

- 2.a) What is high performance computing? How to achieve it? [5M]
- b) Explain different technologies used to achieve high performance computing. [5M]

OR

3. In detail, explain the following computing paradigms
 - a) Mobile Computing. [5M]
 - b) Cluster Computing. [5M]
4. What are the principles of cloud computing? Explain in detail. [10M]

OR

5. Discuss in detail about different deployment models of cloud. [10M]
- 6.a) Discuss the phases involved in migrating a cloud. [5M]
- b) Explain how cloud applications are managed. [5M]

OR

7. Explain Layered architectural development of the cloud platform for IaaS, PaaS, and SaaS applications over the Internet. [10M]
- 8.a) What is Software-as-a-Service (SaaS)? Explain the characteristics of SaaS. [5M]
- b) Explain the pros and cons of IaaS. [5M]

OR

9. Discuss in detail about characteristics, suitability, pros and cons of PaaS. [10M]
10. Write Short notes on:
 - a) SAP HANA Cloud Platform [5M]
 - b) Captiva Cloud Toolkit. [5M]

OR

11. Describe in detail the various services provided by IBM SmartCloud. [10M]
