

Code No.: R22CS58122PE

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CMR ENGINEERING COLLEGE: : HYDERABAD**UGC AUTONOMOUS****I-M.TECH-I-Semester End Examinations (Regular) - March- 2025****CLOUD COMPUTING SECURITY (PE-II)****(CSE)****[Time: 3 Hours]****[Max. Marks: 60]****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 10 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**(10 Marks)**

1. a) Mention the benefits of cloud computing. [1M]
- b) Compare the flexibility offered by in-house development platforms and PaaS. [1M]
- c) Name the technologies related to data centers. [1M]
- d) Name the IT resources that can be virtualized. [1M]
- e) Summarize the features of the applications that tenants can optimize. [1M]
- f) What are the two metrics that can be used to determine risk for an IT resource? [1M]
- g) Define a threat agent. [1M]
- h) State the purpose of resource replication. [1M]
- i) List out the tasks that can be performed by cloud consumers via a remote administration console. [1M]
- j) Where do we use the hashing mechanism? [1M]

PART-B**(50 Marks)**

2. With a neat diagram, Elucidate the cloud services delivery model. [10M]
- OR**
3. Inspect the functionality of public cloud, private cloud and hybrid cloud. [10M]
 4. How are broadband networks and Internet architecture useful for cloud enablers and security? Discuss. [10M]
- OR**
5. Label and describe different logical layers of hardware-based virtualization. [10M]
 6. Demonstrate the approach of a multitenant application that is being concurrently used by two different tenants. [10M]
- OR**
7. Examine the fundamental security terms relevant to cloud computing. [10M]
 8. Elaborate the utilization of various interfaces with virtualized cloud storage devices. [10M]
- OR**
9. Analyze the two basic configurations of failover systems. [10M]
 10. Describe the mechanism of AWS management system for representing cloud management products. [10M]
- OR**
11. Interpret the common steps involved during the generation of certificates by a certificate authority. [10M]
