



MRCET CAMPUS

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS INSTITUTION – UGC, GOVT. OF INDIA)

B.Tech
**Aeronautical
Engineering**



Cloud Computing Fundamentals

Prepared by:

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
III B.Tech II Semester MODEL PAPER-1
Cloud Computing Fundamentals

R20

Roll No										
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Time: 3 hours

Max. Marks: 70

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

SECTION-I

- 1 **A** Discuss in detail about distributed system models.
 B Explain the Layers of Cloud.

OR

- 2 **A** Explain the basic Cluster Architecture with a neat diagram.
 B Write a note on grid computing, distributed computing and parallel computing.

SECTION-II

- 3 **A** Outline the full and para-virtualization.
 B Sketch the architecture of computer system before and after virtualization and explain it.

OR

- 4 Explain in detail about Implementation Levels of virtualization.

SECTION-III

- 5 **A** What to consider before migrating to cloud? Explain.
 B Classify the clouds based on the deployment model.

OR

- 6 **A** Discuss about the migration risk and mitigation.
 B Classify the cloud computing services.

SECTION-IV

- 7 How cloud provides Infrastructure as a service (IAAS)? Explain.

OR

- 8 **A** Discuss about the integration of private and public clouds.
 B Explain Aneka framework for cloud infrastructure.

SECTION-V

- 9 **A** What does the acronym SaaS mean? How does it relate to cloud computing?
 B Identify the Web-Based Communication Tools used in SaaS.

OR

- 10 How to protect the data in cloud computing using information card?

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R20

III B.Tech II Semester MODEL PAPER-2
Cloud Computing Fundamentals

Roll No									
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Time: 3 hours

Max. Marks: 70

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

SECTION-I

- 1 **A** Illustrate the characteristics of cloud Computing with examples.
 B Distinguish between Parallel Computing, Distributed Computing

OR

- 2 **A** Explain the basic of Peer 2 Peer Network Systems.
 B Explain the desired features of Cloud Computing.

SECTION-II

- 3 **A** What are hardware virtualization techniques?
 B List and discuss different types of virtualization

OR

- 4 Discuss the architecture of Hyper-V. Discuss its use in cloud computing.

SECTION-III

- 5 Explain Seven-Step Model of Migration into a Cloud.

OR

- 6 Explain the broad approaches to migrating into the cloud.

SECTION-IV

- 7 Explain about Virtual Machines Provisioning process

OR

- 8 Explain about Virtual Machines Migration services

SECTION-V

- 9 Explain the features of Google App Engine.

OR

- 10 Discuss in brief about the cloud computing and data security.

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III B.Tech II Semester MODEL PAPER-3
Cloud Computing Fundamentals

R20

Roll No										
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Time: 3 hours

Max. Marks: 70

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

SECTION-I

- 1** What is cloud computing and explain the characteristics and benefits of cloud computing.

OR

- 2** Explain the Types of Clouds

SECTION-II

- 3** Explain Virtual Storage Management with Neat Diagram.

OR

- 4** What is a Virtual Machine? Explain virtualization of I/O Devices

SECTION-III

- 5** Explain roots of cloud computing.

OR

- 6** Explain the enterprise cloud computing paradigm

SECTION-IV

- 7** Analyze the Public Cloud and Infrastructure Services in Cloud

OR

- 8** Write a short note on the following:
(i). Microsoft Azure
(ii). Aneka Architecture

SECTION-V

- 9** Discuss the evolution of Saas with an example.

OR

- 10** Explain the Data Security Risks with suitable Examples

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III B.Tech II Semester MODEL PAPER-4
Cloud Computing Fundamentals

R20

Roll No										
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Time: 3 hours

Max. Marks: 70

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each SECTION and each Question carries 14 marks.

1 Explain about Grid and Cluster Computing

OR

2 Explain the Layers and Types of Clouds

SECTION-II

3 List out the different classes of virtualization architecture. Discuss in detail about the hypervisor and Xen architecture .

OR

4 Explain Virtualization of CPU.

SECTION-III

5 Explain how migration is done into cloud

OR

6 Compare Public, Private and Hybrid Clouds.

SECTION-IV

7 Discuss the features of PaaS and IaaS providers.

OR

8 Differentiate between Infrastructure as a Service (IaaS) & Platform (PaaS) with appropriate example

SECTION-V

9 Explain Identity and Security with respect to Cloud Computing

OR

10 Discuss about data security risks in cloud? Explain how digital identity can overcome these risks