MALLA REDDY COLLEGE OF ENGINEERING &TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

(Affiliated to JNTU, Hyderabad, Approved by AICTE - Accredited by NBA & NAAC – 'A' Grade, ISO 9001:2008 Certified)

Maisammaguda, Dhulapally, Secunderabad – 500100.

DEPARTMENT OF
ELECTRICAL & ELECTRONICS ENGINEERING

III B. TECH II SEMESTER

QUESTION BANK (2023 – 24)

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										

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?

****

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

R20

(Autonomous Institution – UGC, Govt. of India)
III B.Tech II Semester MODEL PAPER-2
Cloud Computing Fundamentals

Roll No										

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.

****

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

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

R20

Roll No										

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

****

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
III B.Tech II Semester MODEL PAPER-4
Cloud Computing Fundamentals

R20

Roll No										

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