

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, NOVEMBER - 2023**

VIRTUALIZATION TECHNOLOGY AND CLOUD COMPUTING

[Maximum marks: 75]

[Time: 3 Hours]

PART A

I. Answer all the following questions in one word or one sentence. Each question carries 1 mark

(9 x 1 = 9 Marks)

		Module outcome	Cognitive level
1	List any two virtual resources created by Virtualization.	M1.01	R
2	List any two softwares that provide environment in which VMs can operate.	M1.04	R
3	List any two advantages of Network Virtualization.	M2.05	R
4	Define VDI in Desktop Virtualization.	M2.08	U
5	List any two vendors of Cloud Computing.	M3.02	R
6	List any two limitations of Cloud Computing.	M3.01	R
7	List any two core elements of Cloud data center.	M3.03	R
8	Give any two Cloud Deployment Models.	M4.02	R
9	List any two Cloud replication tools.	M4.06	R

PART B

II. Answer any eight questions from the following. Each question carries 3 marks.

(8 x 3 = 24 Marks)

		Module outcome	Cognitive level
1	Explain Type – 1 Hypervisor.	M1.01	U
2	Compare VM Clones and Snapshots.	M2.03	U
3	Write short note on Open Virtualization format.	M2.04	R
4	Outline the feature of Virtual LAN.	M2.06	R
5	Differentiate Server and Application Virtualizations.	M2.10	U
6	List characteristics of Cloud Computing.	M3.06	R
7	Write short note on any vendors of Cloud Computing.	M3.02	R
8	Explain Disk Provisioning in Cloud Computing.	M3.03	U
9	Explain about load balancing in Cloud Computing.	M3.04	U
10	Explain Hybrid Cloud.	M4.02	U

PART C

Answer all questions. Each question carries seven marks

(6 x 7 = 42 Marks)

		Module outcome	Cognitive level
III	Explain Virtualization and compare with Cloud Computing. OR	M1.02	U
IV	Compare Type – 1 and Type – 2 Hypervisor with examples.	M1.06	U
V	Explain Virtualization Software Operation. OR	M1.03	U
VI	Explain the types of Virtualizations.	M1.03	U
VII	Explain working of Virtual Machine. OR	M2.01	U
VIII	Explain the different types of Desktop Virtualization.	M2.07	U
IX	Explain Disk provisioning in Cloud Computing. OR	M3.01	U
X	Explain Cloud Computing Architecture.	M3.05	U
XI	Compare various Cloud Service Models. OR	M4.02	U
XII	Outline Computing on Demand.	M4.07	U
XIII	Explain Cloud Backup Technologies. OR	M4.06	U
XIV	Describe Cloud Storage.	M4.03	U
