

CBCS SCHEME

USN

[illegible]

BAD515C

Fifth Semester B.E./B.Tech. Degree Examination, June/July 2025
Cloud Computing

Time: 3 hrs.

Max. Marks: 100

**Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.**

Module – 1			M	L	C
Q.1	a.	With neat diagram, explain the evolution of HPC and HTC systems.	08	L1	CO1
	b.	Explain various computing paradigm distinctions.	06	L1	CO1
	c.	Classify Parallel and Distributed Computing System.	06	L1	CO1
OR					
Q.2	a.	With a neat diagram, explain the multithreading technology.	08	L1	CO2
	b.	Explain the three cloud service models: (i) Infrastructure as a Service (IaaS) (ii) Platform as a Service (PaaS) (iii) Software as a Service (SaaS)	06	L1	CO2
	c.	List and explain the dimension of scalability in parallel and distributed systems.	06	L2	CO1
Module – 2					
Q.3	a.	With neat diagram, explain the levels of virtualization implementations.	10	L2	CO1
	b.	Why OS level virtualization? Explain the advantages and disadvantages of OS extension.	05	L2	CO2
	c.	Explain Physical versus Virtual clusters.	05	L1	CO1
OR					
Q.4	a.	What is full virtualization? Explain in detail binary translation of guest OS request using a VMM.	08	L1	CO2
	b.	Explain Memory Virtualization.	06	L1	CO1
	c.	Explain memory migration and file system migration.	06	L1	CO1
Module – 3					
Q.5	a.	Explain Public cloud, Private cloud and Hybrid cloud.	06	L1	CO2
	b.	Explain the Cloud Design Objectives.	06	L1	CO2
	c.	Explain Data Center Management Issues.	08	L1	CO2

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OR

Q.6	a.	Explain the Cloud Enabling Technologies in hardware, software and networking.	06	L2	CO1
	b.	Explain the Architectural Design challenges.	08	L2	CO1
	c.	Explain Google App Engine (GAE).	06	L2	CO1

Module – 4

Q.7	a.	Explain the security concern for cloud users.	06	L2	CO1
	b.	Explain Operating System security.	06	L2	CO1
	c.	Explain the security risks posed by management OS.	08	L2	CO1

OR

Q.8	a.	Explain the design goals of XOAR.	06	L2	CO1
	b.	Explain distributed defense against DDOS flooding attacks.	06	L2	CO1
	c.	Explain the eight physical and cyber security protection at cloud and data center.	08	L2	CO1

Module – 5

Q.9	a.	Explain important cloud platform capabilities.	08	L2	CO1
	b.	Explain the programming features related to program library, Blobs & Drivers, DPFS.	06	L2	CO1
	c.	Compare MapReduce type system over traditional implementation.	06	L3	CO2

OR

Q.10	a.	Write short note on : (i) Open Nebula (ii) Open Stack (iii) Sector / Sphere	10	L2	CO2
	b.	Explain the Sawzall and Pighatin high level language.	10	L2	CO1
