

CBBCS SCHEME

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22SCS31

Third Semester M.Tech. Degree Examination, Dec.2023/Jan.2024 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.	Write a neat diagram, explain the structure of the 3 delivery models and different types of cloud.	10	L2	CO1
	b.	Write short notes on : i) Cloud vulnerabilities ii) Ethical issues in Cloud Computing.	10	L1	CO1
OR					
Q.2	a.	Explain the different types of service offered by AWS which are accessed through AWS Management Console.	10	L2	CO1
	b.	Explain in detail about Cloud storage diversity and Vendor lock - in.	10	L2	CO1
Module – 2					
Q.3	a.	Explain briefly about Existing cloud applications and new application opportunities.	10	L2	CO2
	b.	What is a Workflow? Explain the Life cycle of a workflow and Life cycle of a computer program.	10	L2	CO2
OR					
Q.4	a.	With neat diagram, explain the Map Reduce Programming model.	10	L2	CO2
	b.	Explain briefly about Cloud Computing for Biology Research.	10	L2	CO2
Module – 3					
Q.5	a.	What is meant by Virtualization? Explain in detail about layering and virtualization.	10	L2	CO3
	b.	Explain briefly about Hardware support for virtualization.	10	L2	CO3
OR					
Q.6	a.	What is meant by Xen? Explain detail about X86 architecture.	10	L2	CO3
	b.	With neat diagram, explain in detail about Xen zero – copy semantics for data transfer using I/O rings.	10	L2	CO3
Module – 4					
Q.7	a.	Explain briefly about stability of a two – level resource allocation architecture.	10	L2	CO4

	b.	With neat diagram, explain the coordination of Specialized autonomic performance Managers.	10	L2	CO4
OR					
Q.8	a.	Explain briefly about Cloud scheduling subject to deadlines.	10	L2	CO4
	b.	Explain briefly about scheduling MapReduce applications subject to deadlines.	10	L2	CO4
Module - 5					
Q.9	a.	With neat diagram, explain in detail about surfaces of attacks in a Cloud Computing Environment.	10	L2	CO5
	b.	Explain briefly about Virtual Security Services provided by the VMM and dedicated security VM.	10	L2	CO5
OR					
Q.10	a.	Explain how to launch an EC2 linux instance and connect to it.	10	L2	CO5
	b.	Explain how to install Hadoop on Eclipse on a windows system.	10	L2	CO5
