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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

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22SCS325

Third Semester M.Tech. Degree Examination, Dec.2023/Jan.2024 Business Intelligence and Its Applications

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.	Define Business Intelligence. With neat diagram explain the engineering stages and development steps.	10	L2	CO1
	b.	Explain three project parallel development tracks.	10	L2	CO1
OR					
Q.2	a.	Discuss the Business Case Assessment Activities with diagram.	12	L2	CO1
	b.	List and discuss DBMS gateways of the middleware platform.	08	L2	CO1
Module – 2					
Q.3	a.	With neat diagram explain the steps involved for preparing a BI project plan.	10	L2	CO1
	b.	What is Risk Analysis? What are key points to consider while risk analysis.	10	L2	CO1
OR					
Q.4	a.	Explain the Interviewing process in the Business Intelligence Process.	10	L2	CO1
	b.	Briefly explain the interviews for general business requirements.	10	L2	CO1
Module – 3					
Q.5	a.	Explain Logical database design with diagram.	10	L2	CO2
	b.	Explain Physical database design activities.	10	L2	CO2
OR					
Q.6	a.	Discuss the Security Management used for BI applications.	10	L2	CO2
	b.	Explain several data backup and recovery strategies.	10	L2	CO2
Module – 4					
Q.7	a.	What are the three growth areas in growth management? Explain.	10	L2	CO3
	b.	Explain Post-implementation Review session flow in Growth Management, with diagram.	10	L2	CO3
OR					
Q.8	a.	Explain release valuation activities in details.	10	L2	CO3
	b.	What are Dashboards? List and explain different types of Dashboards.	10	L2	CO3
Module – 5					
Q.9	a.	State and explain any five purposes of using IT in business process.	10	L2	CO3
	b.	How to manage and extract information from semi-structured data?	10	L3	CO3
OR					
Q.10	a.	Discuss four perspectives of balanced scorecard.	10	L2	CO3
	b.	Why business intelligence should be on the clouds.	10	L3	CO3

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Third Semester M.Tech. Degree Examination, Dec.2023/Jan.2024

Block Chain Technology

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.	Explain with neat diagram the Generic Elements of a block chain.		10	L2	CO2
	b.	What is distributed systems? Explain with neat diagram.		10	L2	CO2
OR						
Q.2	a.	What is Blockchain? Explain different types of blockchain.		10	L1	CO1
	b.	What are the benefits and the limitations of block chain?		10	L2	CO1
Module – 2						
Q.3	a.	Explain Decentralization using Block chain with a diagram for different types of networks.		10	L2	CO1
	b.	Explain the methods of Decentralization.		10	L2	CO1
OR						
Q.4	a.	Define cryptography. Explain the cryptographic primitives with a neat diagram.		10	L2	CO1
	b.	Explain the role of public and private key with respect to Asymmetric cryptography with a diagram.		10	L2	CO1
Module – 3						
Q.5	a.	What is Bitcoin? Explain public private address in Bitcoin.		10	L2	CO2
	b.	Explain about transactions life cycle.		10	L2	CO2
OR						
Q.6	a.	What is Namecoin? Explain merged mining with diagram.		10	L2	CO2
	b.	Write a short note on : i) Prime coin ii) Zcash.		10	L2	CO2
Module – 4						
Q.7	a.	Discuss about how smart contracts can be deployed on a Blockchain.		10	L2	CO3
	b.	Discuss Ricardian Contracts in detail with their properties.		10	L2	CO3
OR						
Q.8	a.	What is Ethereum? Explain various components of Ethereum ecosystem with diagram.		10	L2	CO3
	b.	Discuss about Ethereum virtual machine in detail.		10	L2	CO3
Module – 5						
Q.9	a.	Explain new Blockchain named solutions like Kadema and Ripple.		10	L2	CO3
	b.	What is Interledger protocol? Explain 4 layers belonging to it.		10	L2	CO3
OR						
Q.10	a.	Explain the usage blockchain in Internet of Thing (IoT).		10	L2	CO3
	b.	List out and explain about the various applications of Block chain in E-Government.		10	L2	CO3