Code: 5G471
K-15

	Cod	e: 5G471	
		IV B.Tech. I Semester Regular Examinations November 2018	
		Cloud Computing	
		(Common to CSE & IT)	
		x. Marks: 70 Time: 3 Hours Answer all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks)	S

		UNIT-I	
1.	a)	Discuss various characteristics of network-centric computing and network-centric content.	7M
	b)	By considering any service providers, give an account of usefulness of cloud computing services for today's world.	7M
		OR	
2.	a)	List and discuss major challenges faced by cloud computing services.	7M
	b)	With a neat block-diagram explain the working of Microsoft Azure cloud services.	7M
		UNIT-II	
3.	a)	Propose a cloud application for management of health care industry.	7M
	b)	Discuss the Zookeeper, as a coordinator based on a state machine model.	7M
		OR	
4.	a)	Discuss any three HPC applications which can be developed over cloud computing model.	7M
	b)	Illustrate the working of MapReduce programming be considering an example.	7M
		UNIT-III	
5.	a)	Define virtualization. Why virtualization is an important requirement in cloud computing?	7M
	b)	Write the block diagram of Xen hypervisor, and explain its working.	7M
		OR	
6.	a)	Explain hardware support for virtualization.	7M
	b)	Compare full and para-virtualization models with respect to merits and demerits	7M
		UNIT-IV	
7.	a)	Discuss the working of two-level control architecture.	7M
	b)	With the utility function U® give the working of utility-based model for cloud-based web services.	7M
		OR	
8.	a)	Explain the process of coordination of specialized autonomic performance managers.	7M
	b)	What are combinational auctions? Give the algorithm for pricing and allocation. UNIT-V	7M
9.	a)	Compare and contrast storage models, file systems and databases.	7M
	b)	Define trust. Explain the importance of trust in cloud computing services and its types. OR	7M
10.	a)	Write GPFS configuration, and explain the working of general parallel file systems.	7M
	b)	Discuss various threats and risks for Virtualization in cloud computing.	7M

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Data Science and Big Data Analytics

		(Information Technology)	
Мах.	Mar	rks: 70 Time: 3 Hou	ırs
Answe	er all	five units by choosing one question from each unit (5 x 14 = 70 Marks ********)
		UNIT-I	
1.	a)	What is Big Data? Explain the Data Storage and Analysis.	7M
	b)	Explain the Data Analytics Life cycle in detail.	7M
		OR	
2.	a)	What makes Big Data Analytics different from analyzing a big database? Explain.	7M
	b)	List and explain the technologies supporting Big Data analysis. UNIT-II	7M
3.		Explain the following:	
		a) Data Munging,	
		b) Wrangling	
		c) Cleaning	14M
		OR	
4.	a)	List and explain the database system applications in detail.	7M
	b)	Discuss the role of storage manager and query processor in big data analytics. UNIT-III	7M
5.	a)	What is meant by machine learning? Why is it needed? Briefly discuss various	71.4
	1. \	issues in machine learning	7M
	b)	Describe the Inductive Bias in Decision Tree Learning	7M
		OR	
6.	a)	Give a brief note on Page Rank with an example.	7M
	b)	List and explain the various techniques of visualization & visual data analytics. UNIT-IV	7M
7.	a)	Describe the R functions and programming in detail.	7M
	b)	Explain the analyzing and exploring data with R.	7M
		OR	
8.		Write a short note on the following:	
		a) R Graphics,	
		b) R Studio	14M
		UNIT-V	
9.	a)	Discuss the Class Database Running Natively on Hadoop.	7M
	b)	Illustrate the Biginsights.	7M
		OR	
10.	a)	Explain about Jigsaw in detail.	7M
	b)	List and explain the design goals of InfoSphere Streams.	7M

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Мс	· · · · · · · · · · · · · · · · · · ·	ours
	er all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks)	
a)		7M
	·	7M
,	OR	
a)		7M
b)		7M
,	UNIT-II	
a)	Explain any 2 techniques used for communication between distributed objects.	7M
b)	Discuss case study of Java RMI.	7M
	OR	
a)	Discuss the communication and invocation issues of Operating systems.	7M
b)	Describe the distributed file system requirements.	7M
	UNIT-III	
a)	Write notes on i)name spaces ii)name resolution	7M
b)	Explain about Napster and its legacy.	7M
	OR	
a)	Discuss about domain name system.	7M
b)	Illustrate routing overlays.	7M
	UNIT-IV	
a)	-	7M
b)	Explain any 2 algorithms used for distributed mutual exclusion.	7M
	OR	
a)	Explain the methods used for synchronizing physical clocks.	7M
b)	Write notes on logical time and logical clocks.	7M
,	· · ·	7M
b)		7M
	·	7M
b)	·	7M
	a) b) a) b) a) b) a) b) a) b) a) b) a)	Discuss about domain name system. UNIT-IV a) Discuss about global states. b) Explain the methods used for synchronizing physical clocks. b) Unitr-IV a) Explain any 2 algorithms used for distributed mutual exclusion. OR a) Discuss about flat and nested distributed file systems. OR a) Discuss the communication and invocation issues of Operating systems. Describe the distributed file system requirements. UNIT-III a) Write notes on i)name spaces ii)name resolution b) Explain about Napster and its legacy. OR a) Discuss about domain name system. b) Illustrate routing overlays. UNIT-IV a) Discuss about global states. b) Explain any 2 algorithms used for distributed mutual exclusion. OR a) Explain the methods used for synchronizing physical clocks. UNIT-V a) Explain the use of locks in strict two-phase locking. b) Write notes on deadlocks. OR a) Explain about flat and nested distributed transactions.

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Enterprise Programming

		(Common to CSE & IT)	
Max	. Mc	arks: 70 Time: 3 Hou	Jrs
A	\nsw	ver all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks)	
		UNIT-I	
1.	a)	Explain the web server XAMPP?	7M
	b)	Explain the web server WAMP?	7M
	-,	OR	
2.	a)	Explain programming in a web environment XAMPP?	7M
	b)	Explain programming in web environment WAMP?	7M
		UNIT-II	
3.	a)	Explain Arrays in PHP with Example?	7M
	b)	Explain Functions in PHP with Example?	7M
		OR	
4.	a)	Explain Extending class in PHP with Example?	7M
	b)	Explain creation of instances using constructors in PHP?	7M
		UNIT-III	
5.	a)	Discuss using of COOKIES with example?	7M
	b)	Discuss using of sessions with example?	7M
		OR	
6.	a)	Explain Validating form input in PHP?	7M
	b)	Explain preventing multiple submissions of a form?	7M
		UNIT-IV	
7.	a)	Explain MVC Architecture?	7M
	b)	Explain basic database concepts?	7M
		OR	
8.	a)	Explain HTTP Request and Response fundamentals in AJAX?	7M
	b)	Explain XML HTTP Request Methods and properties?	7M
		UNIT-V	
9.	a)	Explain client driven communication in AJAX & PHP?	7M
	b)	Explain server side processing in AJAX & PHP?	7M
		OR	
10.	a)	Explain the GET Vs POST passing values in PHP & AJAX?	7M
	b)	Explain the Form validation?	7M

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Object Oriented Analysis and Design

(Common to CSE & IT) Max. Marks: 70 Time: 3 Hours Answer all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks) UNIT-I a) Describe the importance of modeling. What are its principles? 7M 1. What are building blocks of UML? Explain the kinds of relationships in UML 7M OR What are the approaches to model a software system? Explain Object oriented 2. model. 7M 7M b) Explain briefly conceptual model of UML. **UNIT-II** What is classifier? Explain kinds of classifiers. 7M 3. Explain the difference between forward and reverse engineering. 7M 4. a) What is generalization? Illustrate with a neat diagram. 7M Explain object diagram and its properties. 7M **UNIT-III** 5. a) What is an interface? Explain links and association with a diagram. 7M Define use case model. Explain use case diagram for a ATM machine. 7M **OR** Describe sequence diagram with a neat diagram. 7M Discuss the guidelines for the activity model. 7M **UNIT-IV** What is a signal? State the procedure to model families of signals. 7 7M Explain transition and self-transition with a diagram. 7M 8. a) What is a state machine? Illustrate with a neat diagram. 7M 7M Explain the importance of event trigger. UNIT-V 9. 7M Show the common use of component diagram. Explain how to organize nodes. 7M **OR** 7M 10. What is a node? Explain contrast node with components. 7M Categories the stereotypes that apply to components.