Hall Ticket Number :										

R-17

Code: 7G181

IV B.Tech. II Semester Advanced Supplementary Examinations June 2021

Cloud Computing

(Computer Science and Engineering)

Max. Marks: 70 Time: 3 Hours

Answer *any five full questions* by choosing one question from each unit (5x14 = 70 Marks)

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			Marks	CO	Blooms Level
		UNIT–I			
1	a)	Give the importance of network centric computing and network centric content, write any three essential characteristics of network centric content.	7M		
	b)	Give industrial applications of IaaS, PaaS and SaaS.	7M		
		OR			
2	a)	Discuss any four popular services which makes use of the Google cloud services.	7M		
	b)	How does the RAID technology model be used to address the vendor lock-in problem? Explain in detail.	7M		
		UNIT–II			
3	a)	Give the palette of various workflow patterns available for application development.	7M		
	b)	List any five advantageous of using of cloud services in the transportation industry.	7M		
		OR			
4	a)	Discuss in detail the working of Zoo-keeper model for resource coordination, along with its read and write operations.	7M		
	b)	Illustrate the use of cloud services in Education industry.	7M		
		UNIT–III			
5	a)	Define Virtualization, why does virtualization is an important requirement in cloud computing industries?	7M		
	b)	Discuss in detail the layering aspect in virtualization.	7M		
		OR			
6	a)	Discuss advantageous and limitations of full and para virtualization techniques, and discuss their suitability.	7M		
	b)	With a block diagram discuss the working of Xen hypervisor with any three salient features.	7M		
		UNIT–IV			
7	a)	Discuss various policies used in cloud resource management.	7M		
	b)	Explain in detail the working of feedback control based on dynamic thresholds.	7M		
		OR			
8	a)	Explain any two modern storage technologies available for cloud storage.	7M		
	b)	Discuss the significance of NOSQL databases, and also provide the relevance in todays Big data applications.	7M		
		UNIT–V			
9	a)	Discuss in detail the role of trust in cloud services, along with various working principles.	7M		
	b)	Discuss the following; VM rootkits, VMM attacks and VM attacks.	7M		
		OR			
10	a)	Define cloud security, discuss why cloud security is still a concern.	7M		
	b)	Explain any three types of security risks pertaining to cloud services.	7M		

****END****

Hall Ticket Number :										

R-17

Code: 7G189

IV B.Tech. II Semester Advanced Supplementary Examinations August 2021

Design Patterns Through JAVA

(Computer Science and Engineering)

Max. Marks: 70 Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 14 = 70 Marks)

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			Marks	CO	Blooms Level
		UNIT–I			
1.	a)	What is a Design Pattern?	4M	CO1	L1
	b)	Explain the similarities and differences between Design Patterns and Frameworks.	10M	CO1	L2
		OR			
2.		Classify the Design Patterns and explain in a step by step, after selecting a design pattern, how do you use it.	14M	CO1	L4
		UNIT–II			
3.	a)	Explain the structure of Prototype design pattern with sample example.	7M	CO2	L2
	b)	What are the collaborations and consequences of prototype design pattern.	7M	CO2	L1
		OR			
4.		Explain about Intent, Motivation and Applicability of Iterator design pattern.	14M	CO2	L5
		UNIT–III			
5.	a)	Describe Decorator design pattern	4M	CO3	L1
	b)	Explain about several issues should be considered when applying the Decorator pattern and uses of decorator pattern.	10M	CO3	L5
		OR			
6.	a)	Explain the structure of Adaptor design pattern	7M	CO3	L5
	b)	Compare similarities and differences between Adaptor and Bridge.	7M	CO3	L4
		UNIT–IV			
7.		Write in detail about Mediator design pattern.	14M	CO4	L2
		OR			
8.		Explain the structure, collaborations, consequences and implementation of Memento design pattern.	14M	CO4	L2
		UNIT–V			
9.		Illustrate how Consistent Locking Order in a multithreaded environment can prevent a deadlock?	14M	CO4	L4
		OR			
10.		How an Object Authenticator can be used in an application scenario, demonstrate with example?	14M	CO4	L1

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Hall Ticket Number :										

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Code: 7G185

IV B.Tech. II Semester Advanced Supplementary Examinations August 2021

Software Architecture

(Computer Science and Engineering)

Max. Marks: 70 Time: 3 Hours

Answer *any five full questions* by choosing one question from each unit (5x14 = 70 Marks)

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			Marks	CO	Blooms Level
		UNIT–I			
1.	a)	Explain in detail how software architecture manifests the earliest set of design decisions.	10M	CO1	2
	b)	What Makes good Architecture.	4M	CO1	1
		OR			
2.	a)	Describe the architectural structure of a system.	7M	CO1	2
	b)	What are the factors that affect the influence on software architecture?	7M	CO1	1
		UNIT–II			
3.	a)	Explain the process control paradigm with various process control definitions.	10M	CO2	2
	b)	Write a note on Heterogeneous architecture.	4M	CO2	1
		OR			
4.	a)	What are the basic requirements for a mobile robot's architecture? How the Implicit Invocation model handle them.	12M	CO2	1
	b)	Define Registers.	2M	CO2	1
		UNIT–III			
5.	a)	What is shared information system? Explain architectural structures of shared information system.	10M	CO3	1
	b)	Explain about database integration in detail.	4M	CO3	2
		OR			
6.	a)	Examine the characteristics of Architectural Design guidance in detail.	10M	CO3	4
	b)	Discuss about inter operability in detail.	4M	CO3	6
		UNIT–IV			
7.	a)	Define reflection architectural pattern. Explain the dynamics of the same.	7M	CO4	1,2
	b)	Explain about structural Patterns in detail	7M	CO4	2
		OR			
8.	a)	Build the steps in pattern, from mud to structure.	7M	CO4	3
	b)	Summarize the process of Architecture style in detail.	7M	CO4	2
		UNIT–V			
9.	a)	Explain how capturing Architectural Information in an ADL.	10M	CO5	2
	b)	Discuss about Achieving architecture.	4M	CO5	6
		OR			
10.	a)	Explain brief about Application of ADL's in system Development.	7M	CO5	2
	b)	List out the major steps for Evaluating a Product Line.	7M	CO5	1

****END****