R11

Code : 1P3127

M.Tech. II Semester Regular Examinations, July/August 2014

CLOUD COMPUTING

(CSE)

Time: 3 hours **Max Marks: 60**

Answer any FIVE of the following

All questions carry equal marks (12 Marks each)

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1.	a)	What is Virtualization? What are all the benefits of virtualization?	6M
	b)	Compare cloud computing and grid computing	6M
2.		Explain software and hardware virtualizations in detail.	12M
3.	a)	Explain para-virtualization	6M
	b)	Explain thinstall virtualization suite.	6M
4.	a)	What can be virtualized and where does virtualization happens?	6M
	b)	How does performance can be improved through virtualization?	6M
5.	a)	What is cloud computing? Explain its benefits and limitations.	6M
	b)	Describe cloud hardware infrastructure.	6M
6.		Write a note on SaaS, PaaS, IaaS and DaaS.	12M
7.		Explain in detail about data security.	12M
8.		What are all the steps involved in Scaling cloud infrastructure? Explain them in detail.	12M

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Code : 1P3121

R11

M.Tech. II Semester Regular Examinations, July/August 2014

Datawarehousing and Mining

Time: 3 hours **Max Marks: 60**

Answer any FIVE of the following
All questions carry equal marks (12 Marks each)

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1.	a)	Define Data Mining. Discuss the classification of Data mining systems with neat example.	**8M**
	b)	What is the major role played by data cleaning?	**4M**
2.	a)	Discuss the implementation of data warehousing technology	**6M**
	b)	Illustrate the concept OLAP in data warehousing	**6M**
3.	a)	Write short notes on data mining primitives.	**6M**
	b)	Explain the data mining query language architecture.	**6M**
4.		Discuss the various techniques used for characterization of data.	**12M**
5.	a)	Elaborate Constraint based association mining.	**6M**
	b)	Brief about the Boolean association rule used in single dimensional transaction database.	**6M**
6.	a)	Describe Gini Index, Gain Ratio in detail and derive the formula.	**6M**
	b)	Explain rule based classification techniques used in data mining.	**6M**
7.	a)	Explain centroid based classical portioning methods with example.	**6M**
	b)	With neat diagram explain OPTICS in detail.	**6M**
8.	a)	With example discuss about text mining.	**6M**
	b)	Explain multimedia data mining in detail.	**6M**

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R11

Code : 1P3124

M.Tech. II Semester Regular Examinations, July/August 2014

DISTRIBUTED OPERATING SYSTEMS

(CSE)

Time: 3 hours **Max Marks: 60**

Answer any FIVE of the following

All questions carry equal marks (12 Marks each)

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1.	a)	What is a distributed system? List the advantages of distributed systems over independent PCs.	9M
	b)	List the disadvantages of distributed systems.	3M
2.	a)	Discuss what client server model is by giving the request/reply protocol.	4M
	b)	How the addressing is achieved in client server model with a suitable example.	8M
3.	a)	What are logical clocks and physical clocks?	4M
	b)	Write short notes on Bully Algorithm with a suitable example.	8M
4.	a)	What is a thread? What are design issues for thread packages?	6M
	b)	What is a real time system? Discuss about real time communication.	6M
5.	a)	Explain about caching and replication in distributed file system implementation.	8M
	b)	What are the semantics of file sharing?	4M
6.		What is shared memory? Explain about NUMA multiprocessors.	12M
7.	a)	What are consistency models? Explain with suitable example.	6M
	b)	Explain about object-based distributed shared memory.	6M
8.		Explain in detail process management and memory in CHORUS.	12M

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Code : 1P3129

R11

M.Tech.. II Semester Regular Examinations, July/August 2014

Mobile Computing
(CSE)

Time: 3 hours **Max Marks: 60**

Answer any FIVE of the following
All questions carry equal marks (12 Marks each)

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1.		Write a short notes on Protocols, localization calling in Mobile Communications?	12M
2.		Explain various Medium Access mechanisms in wireless networks?	12M
3.		How to deliver IP packets? Describe Tunneling & Encapsulation mechanisms?	12M
4.	*a)*	Compare and contrast between Snooping TCP and Mobile TCP?	8M
	b)	Write short notes on Selective Retransmission?	4M
5.		Describe Database Issues in Mobile Communications?	12M
6.		Explain Push-based & Pull-based mechanisms?	12M
7.	*a)*	What are the Applications of MANETs?	6M
	b)	Explain security issues in MANETs?	6M
8		What are the functionalities in all layers in WAP? Explain its Architecture?	12M

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R11

Code : 1P3123

M.Tech. II Semester Regular Examinations, July/August 2014

OPEN SYSTEMS FOR WEB TECHNOLOGIES

(CSE)

Time: 3 hours **Max Marks: 60**

Answer any FIVE of the following
All questions carry equal marks (12 Marks each)

* * * * *

1.	a)	Write the differences between static web pages and dynamic web pages.	4M
	b)	What is the need of CSS? Explain different style sheets with example.	8M
2.	a)	Explain the different objects in JAVASCRIPT.	6M
	b)	Explain DHTML conflicting styles using examples.	6M
3.	a)	Create an XML document, which holds a dairy of appointments. You should include day, date and time of events and details of each event of other people who may be involved. And include an external DTD file to it.	6M
	b)	Explain DOM by using an example.	6M
4.		Create a HTML page for registration form with the following details: name, address, pincode, date of birth (use drop down list) and include some hobbies by using check box. Write an HTTPSERVLET program to accept the details from registration form. If the user registered successfully, then navigate to another web page after validation.	12M
5.	a)	What are the limitations of servlets? How JSP overcomes these problems.	4M
	b)	Explain life cycle of the JSP.	4M
	c)	Develop a JSP to keep track of number of users and display a message “you are the n^{th} visitor”. Where n is the number of users.	4M
6.	a)	Write about JSP scripting elements in detail.	6M
	b)	How can you share the data between multiple JSP pages, explain with example.	6M
7.	a)	Develop a java bean to accept employee details like emp-id, emp-name and designation. Create a JSP page to display the above employee details in a tabular form.	8M
	b)	Explain javax.sql.* package.	4M
8.	a)	What is Microsoft ASP? How can you execute an ASP page? Give an example.	6M
	b)	What are the needs and benefits of CMS?	6M

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Code : 1P3122

R11

M.Tech. II Semester Regular Examinations, July/August 2014

Software Architecture and Design Patterns

(CSE)

Time: 3 hours **Max Marks: 60**

Answer any FIVE of the following

All questions carry equal marks (12 Marks each)

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1.	a)	What is a design pattern? Give the uses of design patterns.	6M
	b)	Explain how design patterns are used to solve design problems.	6M
2.	a)	Distinguish between Private and Accessor methods.	6M
	b)	Write about Constant Data Manager.	6M
3.	a)	What are creational Patterns? Explain about Singleton Pattern with suitable example.	8M
	b)	Explain the difference between Prototype and Builder.	4M
4.	a)	What are the uses of Collectional Patterns?	4M
	b)	Explain the structure of Composite Pattern with example.	8M
5.	a)	Explain about the adapter pattern with example.	6M
	b)	Discuss about Proxy and Virtual Proxy patterns.	6M
6.	a)	What is the purpose of behavioral pattern? Explain the implementation structure of Command pattern.	6M
	b)	Write short notes on Observer and Interpreter.	6M
7.	a)	Write about Object Authenticator with example.	8M
	b)	What are the uses of template pattern?	4M
8.	a)	Describe about Critical section.	6M
	b)	Briefly explain Read write lock.	6M

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