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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)
First Semester, M.Tech - Computer Engineering (MCEN)
Semester End Examination; Jan - 2017

Cloud Computing

Time: 3 hrs Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

	UNIT - I	
1 a.	Discuss the various security concerns and regulations that are involved in cloud computing	10
	with suitable examples.	
b.	Briefly explain the various cloud computing services provided by :	
	(i) Google	10
	(ii) Salesforce.com.	
2 a.	Discuss operational, economical and staffing benefits that a consumer and provider gain.	10
	Considering the business case for getting into the cloud.	
b.	List and explain the limitations of cloud computing with suitable examples.	10
	UNIT - II	
3 a.	Explain the overview of cloud storage with suitable examples of cloud storage providers.	10
b.	Define SaaS. Discuss the advantages to your organization while pursuing SaaS.	10
4 a. Discuss the concept of server virtualization, application virtualization and preser		10
	virtualization with suitable industry level products/offerings.	10
b.	Explain the concept of migration to the cloud using thin clients.	10
	UNIT - III	
5 a.	Define meta computer. Discuss the essential components of meta computer.	10
b.	Explain the objectives of an e-governance grid and how can they be realized?	10
6 a.	Differentiate between central grid approach versus distributed grid computing environment	10
	with a suitable sketch.	10
b.	Discuss the key functional requirements in grid computing with a layered architecture.	7
c.	What is data farm architecture? Explain its main features.	3
	UNIT - IV	
7 a.	Discuss the concept/architecture of a cluster. Explain the categories of clusters with a suitable	10
	example.	10
b.	Explain the concept of resource management and scheduling in a cluster environment.	10

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8 a.	Discuss how to setup simple clusters? With a neat sketch explain how meta clusters are	1.0
	created using a secured tunnel?	10
b.	Explain directory services. How are heterogeneous clusters managed?	10
	UNIT - V	
9 a. Discuss the various clusters architectures and configurations for High availability		10
	suitable sketches.	12
b.	e. Explain the functionality of failure/recovery clusters.	
10 a.	0 a. Differentiate between static load sharing approach and dynamic load sharing approach with suitable examples.	
b.	Write short notes on:	
	i) Beowulf	10
	ii) PARAM.	

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