	U.S.N			
A IS	P.E.S. College of Engineering, Mandya - 571 401			
(An Autonomous Institution affiliated to VTU, Belgaum) Third Semester, M. Tech Computer Engineering (MCEN)				
	Semester End Examination; Dec - 2016/Jan - 2017			
Cloud Security				
Time: 3 hrs Max. Marks: 100				
NC	ote: Answer FIVE full questions, selecting ONE full question from each unit. UNIT - I			
1 a.	What is cloud computing and explain SPI framework for cloud computing.	10		
b.	List the different types of cloud deployment model. Describe the importance of each.	10		
2 a.	List and explain reasons to move operations towards cloud computing.	4		
b.	Discuss the impact of cloud computing on different type of users.	6		
c.	Explain the significant barrier for adaptation by the enterprises.	6		
d.	What is the impact of cloud computing on the governance structure of IT organization?	4		
	UNIT - II			
3 a.	Write a note on the following with respect to data security :	7		
	i) Data-in-transit (Aspect of Data Security) ii) Data at rest.	/		
b.	What is confidentiality? How confidentiality can be provided?	6		
c.	Discuss the threats to availability and importance of integrity.	7		
4 a.	Why Identity and Access management is needed? Discuss its challenges.	6		
b.	Explain IAM Architecture.	8		
c.	Differentiate between various IAM protocols and standards that are oriented towards consumer	6		
	cloud services.	0		
UNIT - III				
5 a.	List the relevant processes to focus for security management in the cloud and explain	10		
	availability management in detail.	10		
b.	Explain the purpose of Access control of IaaS and list its models.	8		
c.	Explain in brief about security vulnerability management.	2		
6 a.	What is privacy and illustrate how data be managed from the time the information is conceived	10		
	through to its final disposition.			
b.	List the key privacy concess in the cloud and who is responsible for protecting privacy.	10		

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## UNIT - IV

7 a.	Why GRC (Government Risk and Compliance) has been adopted? Discuss its key components with GRC implementation.	10		
b.	How key management plays an important role in providing security and how key can be managed with control objectives?	10		
8 a.	Discuss Microsoft Azure Service platform in detail.	10		
b.	What are the changes to implement privacy risk management? Discuss compliance in relation to cloud computing.	10		
	UNIT - V			
9 a.	With a neat sketch and describe SaaS Web content filtering and IDaaS Model.	10		
b.	List the governance factors to consider when using cloud computing.	6		
c.	List the potential threats of using CSP.	4		
10 a.	Why cloud computing will be popular with business units? Discuss.	10		
b.	Write short notes on :i) Vulnerability managementii) ITL management process and functions.	10		

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