

Reg.No. \_\_\_\_\_



# Karunya UNIVERSITY

(Karunya Institute of Technology &amp; Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

## End Semester Examination – Nov/Dec – 2016

**Code : 14CS3011**  
**Sub. Name : Cloud Computing Services**

**Semester : 2016-17 ODD**  
**Duration : 3hrs**  
**Max. marks : 100**

### ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Define cloud computing. Explain the major deployment models for cloud computing with suitable diagrams.	CO1	15
	b.	What are the challenges ahead in cloud computing?	CO1	5
(OR)				
2.	a.	Define Service-oriented computing and utility-oriented computing. Write the evolution and the differences between Service-oriented computing and utility-oriented computing.	CO1	20
3.	a.	What are the elements of Distributed computing? Explain in detail with necessary diagrams.	CO1	20
(OR)				
4.	a.	List the characteristics of virtualized environments. Draw the virtualization reference model and explain the characteristics.	CO1	20
5.	a.	Draw the cloud computing architecture and explain the cloud reference model.	CO1	20
(OR)				
6.	a.	Draw the openstack liberty architecture. Explain each components and describe their functionality in the cloud.	CO1	20
7.	a.	Write the steps to be followed to deploy SUSE Cloud 6 in a server with 8 nodes. What will be installed in the 8 nodes, justify. Draw the deployment architecture.	CO1	20
(OR)				
8.	a.	Karunya University has decided to setup a private cloud. Write in detail the requirements and recommendations. Generate the list of devices to be procured. Draw the architecture diagram and explain how it will be accessed by all users without any downtime?	CO1	20
<b>Compulsory:</b>				
9.	a.	In a deployed SUSE Cloud 6 write the steps / procedures to create a project with name “univeristy examination” and create two users, staff as admin and student as Member in it. launch an instance “exam” and write how it can be accessed from external network.	CO1	20

ALL THE BEST