

USN			18CS643
GRT II.	and a	Sixth Semester B.E. Degree Examination, June/July 202.	3
College Control		Cloud Computing and Its Applications	
Tin	ne:	3 hrs. Max.	Marks: 100
	N	ote: Answer any FIVE full questions, choosing ONE full question from each n	nodule.
		Module-1	
1	a.	Define cloud computing. Explain its characteristics and benefits.	(06 Marks)
	b.	List and explain pro's and con's of virtualization.	(06 Marks)
	c.	Explain the following:  i) Amazon web services	
		ii) Microsoft Azure.	(08 Marks)
		OR	
2	a.	Explain with neat diagram, Type – I and Type – II hypervisor.	(06 Marks)
	b.	List and explain the different various cloud competing platforms and technolog	1es. (06 Marks)
	c.	With the help of neat diagram, explain the cloud computing reference model.	(08 Marks)
		Module-2	
3	a. b.	What is Iaas? Explain its reference implementation with neat diagram.  Explain hardware and software stack of private cloud. List any 2 advantages of	(10 Marks)
	υ.	cloud interface.	(10 Marks)
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		OR	
4	a.	Explain the different services located in the Aneka Container.	(10 Marks)
	b.	Explain with the neat diagram, logical organization of the Aneka cloud.	(10 Marks)
		Module-3	
5	a.	What are the two major technique used to define parallel implantation	of computer
		algorithm? Explain.	(06 Marks)
	b.	Describe how to implement a parallel matrix scalar product by using domain de	
	0	Define thread? Explain the relation between process and thread with suitable di	(06 Marks)
	C.	Define thread: Explain the relation between process and thread with suitable dr	(08 Marks)
			,
		OR	
6	a.	Explain Aneka thread application model with simple Application.	(08 Marks)
	b. c.	Define task. Explain the computing categories that relate to task.  Explain MPI program structure with neat diagram.	(06 Marks) (06 Marks)
	· .	Dapidin will i program sudcide with heat diagram.	(on mains)

- Module-4
  What is data intensive computing? What are the open challenges in the data intensive 7 a.
  - Discuss the features of Google file system and Amazon Simple Storage Service (S3).

Explain with a reference scenario, the characteristics and applications of data grid. (08 Marks)

What does the term NOSQL mean? Explain Google bigtable with its architecture. (06 Marks) Explain Mapreduce execution Service of Aneka with a neat diagram. (06 Marks) Explain the following Mapreduce similar framework. (08 Marks) ii) Hive iii) Hadoop. i) Pig

## Module-5

Explain the various storage and communication services provided by AWS. (08 Marks) With a neat diagram, explain the Google AppEngine platform architecture. (06 Marks) Establish the relationship on how the cloud computing technology can be applied to support (06 Marks) ECG monitoring.

## OR

With a detailed inference, explain the CRM and ERP implantation based on cloud (08 Marks) computing technologies. Demonstrate with a neat sketch, the architecture of Windows Azure. (06 Marks) Describe an application of cloud technologies for online gaming. (06 Marks)