15CS565

USN

Fifth Semester B.E. Degree Examination, Dec.2023/Jan.2024
Cloud Computing

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1	a.	Define cloud computing. Describe the cloud computing Reference model	(08 Marks)
	b.	Describe any four characteristics of cloud computing.	(04 Marks)
	c.	Discuss the Drawbacks of cloud computing.	(04 Marks)

OR

2	a.	With a neat diagram, describe the virtualization reference model.	(06 Marks)
	b.	Define virtualization. Describe the factor that influences the importance of virtualization with respect to cloud computing.	(04 Marks)
	c.	With a neat diagram, explain the taxonomy of virtualization techniques.	(06 Marks)

Module-2

3	a.	What are the essential characteristics that identify a PaaS solution?	(04 Marks)
	b.	What are the benefits of community cloud?	(04 Marks)
	c.	Discuss the open challenges in cloud computing?	(08 Marks)

OR

4	a.	Explain the three services installed in Aneka container.	(08 Marks)
	b.	Discuss infrastructure and logical organization of an Aneka cloud.	(08 Marks)

Module-3

5	a.	Explain the different techniques for parallel computation.	(08 Marks)
	b.	Describe the major differences between Aneka Thread and Local Thread with a neat diagram.	(08 Marks)

OR

6	a.	Explain the following frameworks for Task computing : i) Condor ii) Globus Tool kit iii) Sun Grid Engine (SGE).	(09 Marks)
	b.	Explain about offspring Architecture, with a neat diagram.	(07 Marks)

Module-4

7	a.	Define Data Intensive Computing. List and explain the characteristics of Date Intensive Computing.	(06 Marks)
	b.	Describe the characteristics of Google File Systems (GFS) and Amazon Simple Storage Service (S3).	(04 Marks)
	c.	With a neat diagram, describe Google Big Table architecture.	(06 Marks)

OR

8	a.	Write a Map and Reduce functions of Map Reduce Model. Describe the Map Reduce Model Work flow with a neat diagram.	(06 Marks)

b. With a neat diagram, describe Amazon Dynamo architecture. **(06 Marks)**

c. Describe any four parameters that can be controlled during execution of an Aneka Map Reduce application. **(04 Marks)**

Module-5

9 a. What is AWS? What types of service does it provide? **(04 Marks)**

b. Describe the application services of AppEngine. **(04 Marks)**

c. What is Microsoft Azure? Describe the architecture of Microsoft azure. **(08 Marks)**

OR

10 a. Describe how cloud computing technology can be applied to support remote ECG Monitoring. **(08 Marks)**

b. Provide some examples and media application that use cloud technologies and explain. **(08 Marks)**

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