CBCS SCHEME

USN . 18CS64

Sixth Semester B.E. Degree Examination, June/July 2023 Cloud Computing and Its Applications

Time: 3 hrs. Max. Marks: 100

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

Module-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)

OF

- 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 technologies.

(06 Marks)

c. With the help of neat diagram, explain the cloud computing reference model. (08 Marks)

Module-2

- 3 a. What is laas? Explain its reference implementation with neat diagram. (10 Marks)
 - Explain hardware and software stack of private cloud. List any 2 advantages of using private cloud interface. (10 Marks)

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

- 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 accomposition.
 (06 Marks)
 - Define thread? Explain the relation between process and thread with suitable diagram.
 (08 Marks)

OR

- 6 a. Explain Aneka thread application model with simple Application. (08 Marks)
 - b. Define task. Explain the computing categories that relate to task. (06 Marks)
 - c. Explain MPI program structure with neat diagram. (06 Marks)

Module-4

- 7 a. What is data intensive computing? What are the open challenges in the data intensive computing? (06 Marks)
 - b. Discuss the features of Google file system and Amazon Simple Storage Service (S3).

(06 Marks)

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

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

Module-5

1		Explain the various storage and communication services provided by Avid	1
	Ь.	With a neat diagram, explain the Google AppEngine platform architecture. (06 Mar	- 500
	c.	Establish the relationship on how the cloud computing technology can be applied to supp	ort
		ECG monitoring. (06 Mar	ks)

OR

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

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