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B.E. (Computer Science & Engineering) Eighth Semester (C.B.S.)

Elective-III : Clustering & Cloud Computing

P. Pages : 2 **NRT/KS/19/3695**

Time : Three Hours * 0 6 9 9 * Max. Marks : 80

Notes : 1. All questions carry marks as indicated.
2. Solve Question 1 OR Questions No. 2.
3. Solve Question 3 OR Questions No. 4.
4. Solve Question 5 OR Questions No. 6.
5. Solve Question 7 OR Questions No. 8.
6. Solve Question 9 OR Questions No. 10.
7. Solve Question 11 OR Questions No. 12.
8. Due credit will be given to neatness and adequate dimensions.
9. Illustrate your answers whenever necessary with the help of neat sketches.

1. What are the difference between

i) Cluster computing, grid computing and cloud computing. **7**

ii) What do you understand by cloud computing? Explain the characteristics of cloud computing. **7**

OR

2. a) With the help of architecture give the overview of mobile cloud. **7**

b) Explain the challenges & legal issues in cloud computing. **7**

3. a) Define virtualization. What is the need of virtualization in cloud computing? **7**

b) Draw and explain the detailed architecture of cloud computing. **6**

OR

4. a) Explain DAAS and NAAS? **7**

b) Explain the deployment models of cloud in detail. **6**

5. a) Explain with diagram HDFS architecture. **7**

b) Explain Hadoop core component. **7**

OR

6. a) What is Bigdata? Give classification of Big Data. **7**

b) List and explain the different steps involved in Hadoop cluster setup. **7**

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7.	a)	Explain the different key security challenges for cloud applications.	**7**
	b)	What do you mean by cloud contract? Explain in details.	**6**

OR

8.	a)	Write short note on **any three**.	**13**
		i) Virtual machine security.	
		ii) Network level security.	
		iii) Application level security.	
		iv) Host level security.	
9.		Give the anatomy of. ASPX page & also explain with an example how to create a web page using ASP.Net.	**13**

OR

10.	a)	Explain the Architecture of ADO.Net.	**6**
	b)	Why there is need of ADO.Net? Explain how to use ADO.Net in any web application.	**7**
11.	a)	Explain types of storage in windows Azure.	**6**
	b)	How the cloud application deploy on to the windows Azure cloud.	**7**

OR

12.	a)	Give the steps to create virtual machine.	**7**
	b)	Explain how windows Azure maximize data availability and minimize security risks.	**6**

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The secret of getting ahead is getting started.

~ Mark Twain