B.E. (Information Technology) Eighth Semester (C.B.S.)
Elective – IV : Cloud Computing

P. Pages : 2

Time : Three Hours

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0745

TKN/KS/16/7710

Max. Marks : 80

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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. Assume suitable data whenever necessary.
10. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Define cloud computing in details what are the different types of clouds? **9**

b) What are the various characteristics of cloud computing? **5**

OR

2. a) Elaborate cloud computing stack. **6**

b) Explain NIST model in details. **8**

3. Explain the following services. **13**

    i) IaaS.

    ii) PaaS.

    iii) SaaS.

    iv) IDaaS.

    v) CaaS.

OR

4. Define and elaborate the following terms in details. **13**

    i) Load balancing & Virtualization.

    ii) Hypervisors.

    iii) Machine Imaging.

5.	a)	Define the windows Azure platform.	**6**
	b)	Discuss the Elastic compute cloud (EC$_2$) and Amazon storage systems.	**8**

OR

6.	Survey the different Google Application portfolios eg: Indexed search, The darsk web, Aggregation & disintermediation and Adwords.	**14**

7.	a)	What are the broad approaches to migrating into the cloud.	**6**
	b)	Explain the seven-step model of migration into a cloud.	**7**

OR

8.	a)	Discuss various cloud computing opportunities.	**6**
	b)	What are the different types of cloud Applications? Explain in details.	**7**

9.	What do you understand by cloud security? How to secure the cloud? How to get Data Secured?	**13**

OR

10.	Define the following terms.	**13**

    i)   Digital universe.

    ii)   Provisioning cloud storage.

    iii)   Cloud Backup solutions.

11.	Discuss in details, the different types of open source cloud computing platforms.	**13**

OR

12.	a)	Discuss map Reduce and Dryad in brief.	**6**
	b)	What are the future trends in cloud computing?	**7**

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