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> "IT'S HARD TO BEAT A PERSON WHO NEVER GIVES UP."
>
> Babe Ruth, American professional baseball player
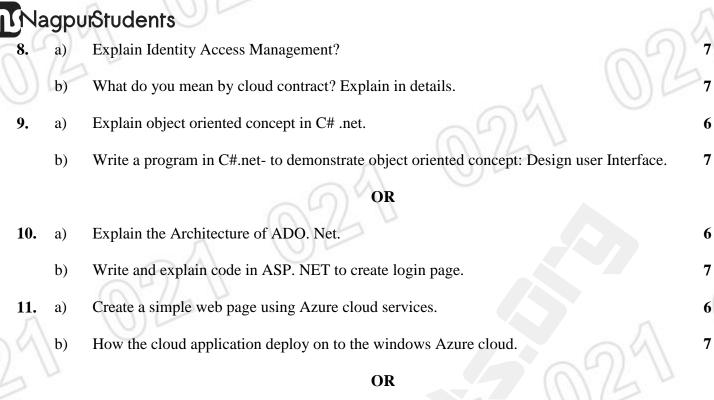
B.E.Eighth Semester (Computer Science & Engineering) (C.B.S.)
Elective - III : Clustering & Cloud Computing

P. Pages : 2

Time : Three Hours

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NKT/KS/17/7613

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) What are different legal issues in cloud computing. **6**

b) Explain with diagram cloud computing stack? **7**

OR

2. a) What is cloud computing? Explain essential characteristics of cloud computing? **6**

b) What are the difference between cluster computing. grid computing and cloud computing. **7**

3. a) Explain cloud computing architecture. **6**

b) What are the role of web services in cloud computing? **7**

OR

4. a) List and explain three service model of cloud computing. **6**

b) Explain DAAS and NAAS? **7**

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

b) Explain with diagram HDFS architecture? **7**

OR

6. a) Explain Hadoop core component. **7**

b) Write and explain step to configure Hadoop? **7**

7. a) What are different cloud security challenges? **7**

b) Explain virtual machine security in cloud computing. **7**

OR

8.   a)   Explain Identity Access Management?   **7**

       b)   What do you mean by cloud contract? Explain in details.   **7**

9.   a)   Explain object oriented concept in C# .net.   **6**

       b)   Write a program in C#.net- to demonstrate object oriented concept: Design user Interface.   **7**

OR

10.   a)   Explain the Architecture of ADO. Net.   **6**

       b)   Write and explain code in ASP. NET to create login page.   **7**

11.   a)   Create a simple web page using Azure cloud services.   **6**

       b)   How the cloud application deploy on to the windows Azure cloud.   **7**

OR

12.   a)   What is provisioning in cloud computing. How Virtual machine can be provision in Azure cloud.   **6**

       b)   Explain how window Azure maximize data availability and minimize security risks.   **7**

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The secret of getting ahead is getting started.

~ Mark Twain

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