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- Notes :
1. Solve Question 1 OR Questions No. 2.
  2. Solve Question 3 OR Questions No. 4.
  3. Solve Question 5 OR Questions No. 6.
  4. Solve Question 7 OR Questions No. 8.
  5. Solve Question 9 OR Questions No. 10.
  6. Solve Question 11 OR Questions No. 12.
  7. Assume suitable data whenever necessary.
  8. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) What do you understand by cloud computing? Explain the characteristics of cloud computing. 7

b) Compare cloud, cluster & Grid Computing. 7

**OR**

2. a) Explain the challenges & legal issues in cloud computing. 7

b) With the help of architecture give the overview of mobile cloud. 7

3. a) Explain deployment models of cloud in detail. 7

b) What do you mean by virtualization? Explain the pitfalls of virtualization. 6

**OR**

4. a) List & explain the service models of cloud with example. 7

b) Write in brief about virtualization applications in enterprises. 6

5. a) What is Big data? Justify its characteristics. 6

b) Write in brief about components of Hadoop Cluster. 7

**OR**

6. a) What is MapReduce? Give the stages to execute MapReduce program. Why to use MapReduce model? 8

b) Explain the three tiers of Big data framework. 5

7. a) Justify cloud security challenges in detail. 7

b) Explain the contracting models in cloud. 6

**OR**

8. Write short notes on **any three**. **13**
- a) Host Level Security
  - b) Network Level Security
  - c) Application Level Security
  - d) Virtual Machine 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) Why there is need of ADO.Net? Explain how to use ADO.Net in any web application. **8**
- b) Draw & explain the architecture of ADO.Net. **5**
11. a) Give the steps to create virtual machine. **7**
- b) Explain types of storage in windows Azure. **7**

**OR**

12. a) Explain how to deploy application using windows Azure subscription. **9**
- b) Write about worker role & web role while configuring an application in windows Azure. **5**

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~ **Sam Walton**

