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P. Pages : 2

Time : Three Hours

**NIR/KW/18/3695**

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. Assume suitable data whenever necessary.

1. a) Explain difference between cluster computing, Grid computing and cloud computing. 7

b) Explain service model and its features. 6

OR

2. a) Explain cloud infrastructure management? 8

b) What are advantages and disadvantages of cloud computing? 5

3. a) Explain cloud computing architecture? 8

b) What is role of networking in cloud computing? 5

OR

4. a) Difference between traditional client server and cloud computing? 6

b) Write short note on : 7

i) Paas Model.

ii) Saas Model.

5. a) What is Hadoop duster? Explain in details. 10

b) Illustrate Map-Reduce algorithm with an example. 4

OR

6. a) Explain Schedulers in Map Reduce. 6

b) Explain Hadoop architecture core components. 8

7. a) Explain Data Privacy? 8
b) Explain virtual machine security in cloud computing? 5

OR

8. a) How Authentication works in cloud computing? 6
b) Explain cloud contract in details. 7
9. a) What is class? How to create objects in C#? 8
b) What are the advantages of .NET? 5

OR

10. a) What do you mean by abstract methods and abstract classes? 6
b) What is polymorphism? How it is achieved? 7
11. a) Explain window Azure Architecture. 10
b) Explain the significance of partition keys & row keys in Azure table. 4

OR

12. a) Compare window Azure table storage and SQL Database. 7
b) Explain Azure Queue. 7



~ Mark Twain

