

Roll No. ....

Total Pages : 3

**BT-8/D-19**

**38196**

**CLOUD COMPUTING**

**Paper-IT-418N**

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt *five* questions in all by selecting at least *one* question from each unit. All questions carry equal marks.

**UNIT-I**

1. (a) Differentiate cloud computing, cluster computing and grid computing with their pros and cons. 10
- (b) Explain NIST model of cloud computing. Why we use this model in cloud computing ? 5
2. (a) Define cloud computing. How to measure the cloud's value ? Also tell how to measure cloud computing costs ?
- (b) Explain about the service providers of cloud computing.
- (c) Explain the properties of cloud computing. (3×5=15)

**UNIT-II**

3. (a) Explain in detail that how to create clouds with infrastructure as a Service. 5

- (b) Define software as a service (Saas). What are the Saas characteristics ? Also explain how Saas and SOA are related to each other ? 10

4. (a) What is the role of networks in cloud computing ? Explain it in brief. 5
- (b) Define following terms :
  - (i) Private cloud.
  - (ii) Hybrid cloud.
  - (iii) Community cloud. (3×2=6)
- (c) Describe how to enhance the cloud computing environment using a cluster as a service ? 4

**UNIT-III**

5. (a) What do you understand by SLA ? Describe the types of SLA. Also explain how to manage SLA in clouds ? 8
- (b) Describe step by step procedure to store data on the clouds. And also tell how to process large scale data on clouds ? 7
6. What do you understand by microsoft's developing cloud computing strategy ? What are the windows Azure hosting service ? How to explore application development using the windows Azure platform ? Also describe the applications that are the part of windows live. 15

#### UNIT-IV

7. (a) What are the commercial consideration of cloud computing ? Explain them in detail. 5
- (b) How cloud data can be secured ? How identity is used to allow secure cloud access ? 10
8. Write short notes on following :
- (a) Network level security.
- (b) Application level Security.
- (c) Cloud contracting model. (3×5=15)
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