

CS/B.TECH/CSE/ODD SEM/SEM-7/CS-704B/2016-17

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**MAULANA ABUL KALAM AZAD UNIVERSITY OF  
TECHNOLOGY, WEST BENGAL**

**Paper Code : CS-704B  
CLOUD COMPUTING**

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own  
words as far as practicable.*

**GROUP - A**

**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for any ten of the  
following : 10 × 1 = 10

i) Which one is not a PaaS Service ?

- a) Windows Azure
- b) Google App Engine
- c) Salesforce
- d) Oracle Database as a Service.

ii) DCOM, RMI, COBRA are different forms of

- a) RPC
- b) IPC
- c) SOA
- d) Web services.

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[ Turn over

iii) Which are valid dimensions of cloud cube ?

- a) Service, Deployment
- b) Ownership, Sourcing
- c) Security Boundary, Portability
- d) Physical Location of the data, Platform.

iv) What are the technologies that played a vital role in  
cloud computing ?

- a) Mainframe
- b) Utility Computing, Grid Computing, API
- c) Web 2.0, Virtualization, Service Oriented  
Computing
- d) Database, Super computers.

v) An example of high performance cluster file system  
is

- a) vMotion
- b) VMFS
- c) DVS
- d) NTFS.

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vi) What is the expansion of WSDL expands to

- a) Web Security Description Language
- b) Web Service Description Language
- c) Web Solution Description Language
- d) Web Service Differentiation Language.

vii) Which one is not a second level attribute of Storage attribute ?

- a) Query
- b) Non-Relational
- c) Data Access
- d) Replication.

viii) Which one of the following options is true with respect to cloud computing ?

- a) Hardware should be composable
- b) Software should be composable
- c) Both Hardware and Software should be composable
- d) Both Hardware and Software are not required to be composable.

ix) Which one is not a valid category of Google API ?

- a) Ads and AdSense
- b) AJAX
- c) Google Gears
- d) Geo.

x) Different message passing topologies in SOA are respectively Circular, Network, Star and

- a) Stove and Pipe
- b) Hub and Spoke
- c) Mesh
- d) Hierarchical.

xi) Which one of the following providers provides Compliance as a Service ( CaaS ) ?

- a) Amazon
- b) GoGrid
- c) Bankserv
- d) RackSpace PCI.

xii) Which one of the following large vendors does not have an IT Management software as a service ?

- a) IBM
- b) HP
- c) Microsoft
- d) Google.

xiii) Which one of the following service models is closest to traditional hosting ?

- a) SaaS                      b) PaaS.

**GROUP - B**

**( Short Answer Type Questions )**

Answer any *three* of the following.      3 × 5 = 15

2. Define cloud computing. Explain different service models of cloud with example.      2 + 3
3. A small sized enterprise is contemplating an email solution for their employees. What are the reasons you would suggest a cloud computing solution or a traditional solution ?
4. What is a hypervisor ? Explain the types of hypervisor. Explain what is meant by Identity as a service.      1 + 2 + 2
5. What are the two different kinds of cloud service offerings by Google ? What is disintermediation ?

6. What are typical features of an ESB ? What are the different types of catalogue services ?
7. What are the different factors to be considered while choosing a database for AWS ?

**GROUP - C**

**( Long Answer Type Questions )**

Answer any *three* of the following.      3 × 15 = 45

8. a) Write a brief note on cloud ecosystem along with examples.      8
- b) Explain Amazon EC2 service characteristics.      7
9. a) Explain cloud computing security architecture.      8
- b) What is dark web ? Write down the difference between deep web and dark web. Explain the concept of Google Ad words.      2 + 2 + 3
10. a) What is an Amazon EC2 instance ? Explain the process of launching an Amazon EC2 instance.      6 + 2
- b) Explain the protocol stack for Service Oriented Architecture (SOA) with a neat diagram.      7

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11. What are the different components used in Amazon AWS ?
  12. What is the difference between traditional data centres and cloud ?
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