



# MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : PEC-CS701B/PEC-IT701C/PECDS701B Cloud Computing

UPID : 007553

Time Allotted : 3 Hours

Full Marks : 70

*The Figures in the margin indicate full marks.*

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

## Group-A (Very Short Answer Type Question)

1. Answer *any ten* of the following :

[ 1 x 10 = 10 ]

- (I) Which of the following architectural standards is working with cloud computing industry?
  - a) Web-application frameworks
  - b) Service-oriented architecture
  - c) Standardized Web services
  - d) All of the mentioned
- (II) Which of the following is used to transmit structured data over network?
  - a) JSON
  - b) XML
  - c) Both a) & b)
  - d) None of these
- (III) How does edge computing reduce latency for end users?
  - a) by placing the computing resources closer to the users
  - b) by limiting application access to one user at a time
  - c) by increasing the size of the company's central datacenter
  - d) by migrating applications from one cloud provider to another
- (IV) Which of the following is the correct statement about cloud computing?
  - a) Cloud computing abstracts systems by pooling and sharing resources.
  - b) Cloud computing is nothing more than the Internet.
  - c) The use of the word "cloud" makes reference to the two essential concepts.
  - d) All of the mentioned.
- (V) Which of the following is the correct statement?
  - a) Cloud computing presents new opportunities to users and developers
  - b) Service Level Agreements (SLAs) is small aspect of cloud computing
  - c) Cloud computing does not have impact on software licensing
  - d) All of the mentioned
- (VI) Which of the following is key mechanism for protecting data?
  - a) Access control
  - b) Auditing
  - c) Authentication
  - d) All of the mentioned
- (VII) Which of the following Cloud Security Characteristic states that data is not altered by an unauthorized party?
  - (a) Authenticity
  - (b) Availability
  - (c) Confidentiality
  - (d) Integrity
- (VIII) Which of the following option is the IaaS service provider?
  - a) EC1
  - b) EC2
  - c) EC10
  - d) Hybrid
- (IX) Which one of the following technology works behind the cloud computing platform?
  - a) Virtualization
  - b) SOA
  - c) Grid Computing

- (X) Point out the wrong statement:
- a) You can use proxy and brokerage services to separate clients from direct access to shared cloud storage.
  - b) Any distributed application has a much greater attack surface than an application that is closely held on a Local Area Network.
  - c) Cloud computing doesn't have vulnerabilities associated with Internet applications.
  - d) All of the mentioned.
- (XI) Point out the wrong statement:
- a) SOA provides the standards that transport the messages and makes the infrastructure to support it possible
  - b) SOA provides access to reusable web services over an SMTP network
  - c) SOA offers access to ready-made, modular, highly optimized, and widely shareable components that can minimize developer and infrastructure costs
  - d) None of the mentioned
- (XII) Which of the following is an example of a PaaS cloud service?
- a) Heroku
  - b) AWS Elastic Beanstalk
  - c) Windows Azure
  - d) All of the above

### Group-B (Short Answer Type Question)

Answer *any three* of the following :

[ 5 x 3 = 15 ]

2. Explain different models for deployment in cloud computing. [5]
3. Explain the security aspects of the cloud. [5]
4. What is on-demand functionality? How is it provided in cloud computing? [5]
5. What are the differences between cloud computing and mobile computing? [5]
6. What are the Cloud Storage Levels? [5]

### Group-C (Long Answer Type Question)

Answer *any three* of the following :

[ 15 x 3 = 45 ]

7. What is network management? What are the salient features of Network Management Software (NMS)? [ 7 + 8 ]
8. (a) What is CRM(Customer Relationship Management)? [ 3+2+5 ]  
 Why Salesforce is chosen as CRM?  
 What are technologies used by the Salesforce?  
 (b) What is Microsoft Azure? [ 5 ]
9. (a) What are key Points to Cloud Security Alliance(CSA) Model? [ 8 ]  
 (b) What are the precautions that a user must consider before going for cloud computing? Discuss in details. [ 7 ]
10. (a) What is hybrid cloud? [ 5 ]  
 (b) What are advantages and disadvantages of hybrid cloud? [ 5+5 ]
11. (a) What Is Amazon EC2? [ 5 ]  
 (b) What are Amazon S3? Differentiate between EC2 vs. S3? [ 6+4 ]

\*\*\* END OF PAPER \*\*\*