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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
d) All of the above

(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 ***