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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

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

Group-B (Short Answer Type Question)

Answer *any three* of the following :

[$5 \times 3 = 15$]

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

Group-C (Long Answer Type Question)

Answer *any three* of the following :

[$15 \times 3 = 45$]

- What is network management? What are the salient features of Network Management Software (NMS)? [$7 + 8$]
- (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]
- (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]
- (a) What is hybrid cloud? [5]
(b) What are advantages and disadvantages of hybrid cloud? [$5+5$]
- (a) What Is Amazon EC2? [5]
(b) What are Amazon S3? Differentiate between EC2 vs. S3? [$6+4$]

*** END OF PAPER ***