

ગુજરાત વિદ્યાપીઠ : અમદાવાદ
વ્યવસ્થાપન અને પ્રૌદ્યોગિકી વિજ્ઞાન વિદ્યાશાખા
કમ્પ્યુટર વિજ્ઞાન વિભાગ
માસ્ટર ઓફ કમ્પ્યુટર એપ્લિકેશન (M.C.A.) : સત્ર-૩
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પરીક્ષાર્થી ક્રમાંક

MCA – 304 : Cloud Computing (Elective-I)

તા. 04/11/2023

સમય : 09-00 થી 11-30

વાર : શનિવાર

કુલગુણ : 60

- પ્ર-૧ અ. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ પાંચ) (0૫)
1. Cloud-native applications are designed to run on cloud infrastructure and take advantage of cloud services.(True/False)
 2. Cloud computing shifts capital expenditures in to _____ Expenditure.
 3. In which of the following service models the hardware is virtualized in the cloud?
a) NaaS b) PaaS c) CaaS d) IaaS
 4. Which of the following is not the advantage of Cloud Computing?
a) No Requirement of Internet b) Security c) Scalability d) Reliability
 5. Elasticity in Cloud Computing is
a) Ability to scale up b) Ability to scale down c) A and B both d) None of these
 6. All cloud computing applications suffer from the inherent _____ that is intrinsic in their WAN connectivity.
a) noise b) propagation c) latency d) all of the mentioned
 7. Identify among the following, which provides a runtime environment.
a) IaaS b) SaaS c) PaaS d) XaaS
- પ્ર-૧ બ. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ બે) (0૪)
1. What is the difference between cloud computing and mobile computing?
 2. What are the characteristics of cloud computing?
 3. What is the difference between Scalability and Elasticity?
- પ્ર-૧ ક. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ એક) (0૬)
1. Explain IAAS, PAAS, FAAS, DBaaS, SaaS in brief with diagram.
 2. Do you think cloud computing is the future? Justify your answer in detail.
- પ્ર-૨ અ. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ પાંચ) (0૫)
1. Name any one Type 1 Hypervisor.
 2. Amazon EC2 _____ instances let you take advantage of unused EC2 capacity in the AWS cloud. (Spot, burstable)
 3. EFS stands for _____.
 4. Snapshots are _____ in nature. (decremental, incremental)
 5. Amazon _____ is a relational database management system (RDBMS) built for the cloud with full MySQL and PostgreSQL compatibility. (Aurora, Dynamodb)
 6. Choose among the following, which are the characteristics of IaaS.
a) Highly scalable b) Flexible and dynamic platform
c) Facilitates hardware access to many users d) All of these
 7. 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 these
- પ્ર-૨ બ. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ બે) (0૪)
1. How two EC2 instance can communicate if they are in different Azs?
 2. What is snapshot?

- પ્ર-૨ ૩. Why do we need to create AMIs?
 ૬. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ એક) (૦૬)
 ૧. What is a hypervisor in Cloud Computing? Explain types of hypervisors and use diagram and comparison table whenever applicable.
 ૨. What is ELB? Discuss in detail.
- પ્ર-૩ ૫. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ પાંચ) (૦૫)
 ૧. What is the most important concern of cloud computing?
 a) Cost b) Space c) Security d) Platform
 ૨. In cloud, security is _____ responsibility. (user's, shared, provider's)
 ૩. The principle of _____ states that identities should only be permitted to perform the smallest set of actions necessary to fulfill a specific task. (least privilege, most privilege)
 ૪. FaaS is generally considered as a sub-class of Software as a Service (SaaS) (True/False).
 ૫. Desktop virtualization separates the desktop environment and its applications from the physical client device.
 a) Desktop virtualization b) Server Virtualization c) Database Virtualization d) Hypervisor
 ૬. Cloud providers are developing _____ solutions that enable businesses to quickly recover from disruptions such as natural disasters or cyber attacks.
 a) Disaster recovery b) Data Recovery c) Application Recovery d) None of these
 ૭. KMS stands for _____.
- પ્ર-૩ ૮. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ બે) (૦૪)
 ૧. Define IAM with its role.
 ૨. Define EBS.
 ૩. What is Micro service?
- પ્ર-૩ ૬. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ એક) (૦૬)
 ૧. Discuss Public IP and Elastic IP in detail.
 ૨. Discuss different aspects of cloud security in detail.
- પ્ર-૪ ૫. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ પાંચ) (૦૫)
 ૧. Give two names of popular Software as a Service solutions.
 ૨. What is Cloud Computing believed to be replacing?
 a) Corporate data centres b) Expensive software upgrades
 c) Expensive personal computer hardware d) All of these
 ૩. The term _____ refers to a Network or Internet.
 a) CRM b) Cloud c) Computing d) Cloud Computing
 ૪. Which of the following is the application of cloud computing?
 a) Adobe creative cloud b) Paypal c) Google G Suite d) All of these
 ૫. _____ is the working models for cloud computing.
 a) Configuring Model b) Deployment Models c) Collaborative Model d) All of these
 ૬. _____ is an example of a AWS PaaS cloud service.
 ૭. What is CDN?
- પ્ર-૪ ૮. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ બે) (૦૪)
 ૧. What is Infrastructure as Code (IaC)?
 ૨. State any two real-time Applications of Cloud Computing.
 ૩. What is Fog computing?
- પ્ર-૪ ૬. નીચે આપેલ પ્રશ્નોના જવાબ આપો. (કોઈપણ એક) (૦૬)
 ૧. State the importance of Open Source cloud platforms. Explain any four Open Source cloud platforms.
 ૨. Explain in details the API and Web Service. Write a comparison table of both.
