

IT-704B

CLOUD COMPUTING

Time Allotted: 3 Hours

Full Ma

The questions are of equal value.

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practica

GROUP A

(Multiple Choice Type Questions)

1. Answer any ten questions. 10x
- Which of the following describes a cloud service that can only be accessed by a limited number of people
(A) data center (B) private cloud
(C) public cloud (D) virtualization
 - _____ describes a distribution model in which applications are hosted by service provider and made available to the users.
(A) IaaS (B) PaaS
(C) SaaS (D) none of these
 - Which of the following feature of cloud computing that allows the service to change in size or volume in order to meet the user's need?
(A) scalability (B) virtualization
(C) security (D) cost savings
 - Amazon Web Services is which type of cloud computing distribution model?
(A) SaaS (B) PaaS
(C) IaaS (D) BaaS

- What is private cloud?
(A) a standard cloud service offered via internet
(B) a cloud architecture maintained within an enterprise data center
(C) a cloud service inaccessible to anyone but the cultural elite
(D) none of these
- What is the name of the Rackspace cloud service?
(A) cloud on-demand (B) cloud servers
(C) EC2 (D) none of these
- What is Cloud Foundry?
(A) A factory that produces cloud components
(B) VMware-led open source PaaS
(C) an industry wide PaaS initiative
(D) VMware-led closed source PaaS
- Which of these services is not platform as a service?
(A) Force. com (B) Microsoft Azure
(C) Amazon EC2 (D) Joyent
- What feature does not belong in a private cloud?
(A) metered billing (B) self-service portal
(C) dial-home support (D) rapid elasticity
- Which of the following isn't an advantage of cloud?
(A) no worries about running out of storage
(B) easier to maintain a cloud network
(C) immediate access to computing resources
(D) paying only for what you use
- Which of the following is the first cloud computing outcome?
(A) salesforce.com (B) purchaseforce.com
(C) stockforce.com (D) deliveryforce.com

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- (xii) Which one of the following is an element of SOA?
- (A) tightly coupled (B) loosely coupled
(C) build and deployment detrimentally (D) none of these

GROUP B
(Short Answer Type Questions)

Answer any *three* questions. 3×5 = 15

2. Explain PaaS with example. What is the difference between PaaS and IaaS? 3+2
3. What is Hypervisor? Discuss different types of hypervisor. 2+3
4. What is compliance as a Service (CaaS)? How CaaS is useful for users? 5
5. What do you mean by Single Sign On? Explain with example 5
6. Differentiate Google Ad Words and Ad sense. 5

GROUP C
(Long Answer Type Questions)

Answer any *three* questions. 3×5 = 15

7. (a) What is virtualization? 2
(b) Depict classification of virtualization technique through a schematic diagram. 2
(c) Compare the two types of execution environment virtualization-Process level and System level. 5
(d) Discuss full virtualization 2
(e) What are the advantages and disadvantages of virtualization? 4
8. (a) What is software as a service (SaaS)? 2
(b) What are the characteristics of a SaaS solution? 3
(c) Explain Cloud Cube model of cloud computing. 4
(d) What do you understand by Virtual server? Explain. 3
(e) Write down name of cloud IaaS, PaaS and SaaS provider. 3

9. (a) What are the key mechanisms for protecting data? Briefly describe these mechanisms. 2+4
(b) What does Digital signature mean 2
(c) What is load balancing? Explain load balancing with respect to google cloud based on Application Delivery Network. 2+5
10. (a) Explain the role of cloud Auditor, Broker and Carrier. 6
(b) Why Cloud usage monitor is necessary in cloud computing? Describe briefly. 6
(c) How security policies and security mechanisms are used to counter threats, vulnerabilities and risk caused by threat agents? 3
11. Write short notes on any *three* of the following: 3×5
 - (a) Amazon S3
 - (b) GAE (google application engine)
 - (c) OpenID
 - (d) Windows Azure AppFabric Access Control Service
 - (e) VMware Vsphere
 - (f) Open Virtualization Format.