



**MAULANA ABUL KALAM AZAD UNIVERSITY OF
TECHNOLOGY, WEST BENGAL**

Paper Code : CS-704B

CLOUD COMPUTING

Time Allotted: 3 Hours

Full Marks: 70

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words
as far as practicable.*

Answer all groups.

Group – A

(Multiple Choice Type Questions)

1. Choose the correct alternative for each of the following: <http://www.makaut.com> 1×10=10
- (i) What is private cloud?
- (a) A standard cloud service offered via the Internet
 - ☒ (b) A cloud architecture maintained within enterprise data center
 - ☒ (c) A cloud service inaccessible to anyone but the cultural elite
 - (d) None of the above
- (ii) What is server virtualization?
- (a) It's a problem that crops with cloud computing when servers go offline.
 - (b) It's a method of modeling a cloud computing network before you actually build it so that it works properly. <http://www.makaut.com>
 - ☒ (c) It's partitioning a normal server so that it behaves as if it's multiple servers.
 - (d) None of the above
- (iii) What does CAAS stand for?
- (a) Computing as a service
 - ☒ (b) Compliance as a service
 - (c) Connection as a service
 - (d) None of these

- (iv) Which of the following is essential concept related to Cloud?
(a) Reliability (b) Productivity
(c) Abstraction (d) All of the mentioned
- (v) Which of the following cloud concept is related to pooling and sharing of resources?
(a) Polymorphism (b) Abstraction
(c) Virtualization (d) None of the mentioned
- (vi) Which of the following is a Virtual Machine Technology now owned by Oracle that can run various operating systems?
(a) V machines (b) VirtualBox
(c) ThoughtPolice (d) None of the mentioned
- (vii) Rackspace Cloud Service is an example of <http://www.makaut.com>
(a) IaaS (b) SaaS
(c) PaaS (d) All of the mentioned
- (viii) The componentized nature of SaaS solutions enables many solutions to support a feature called
(a) workspace (b) workloads
(c) mashups (d) All of the mentioned
- (ix) Which of the following is provided by Identity as a Service?
(a) Identity governance (b) Provisioning
(c) Risk and event monitoring (d) All of the mentioned
- (x) The technology used to distribute service requests to resources is referred to as
(a) load performing (b) load scheduling
(c) load balancing (d) All of the mentioned

Group – B

(Short Answer Type Questions)

Answer any three of the following

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| 2. What is Cloud Computing? What are the advantages and limitations of cloud computing? | 5×3=15 |
| 3. What is Hypervisor? What are the types of Hypervisor? Write about identity as a service. | 1+2+2=5 |
| 4. What is Virtualization? Write about Load Balancing. http://www.makaut.com | 1+2+2=5 |
| 5. What are the difference between Private Cloud and Public Cloud? | 2+3=5 |
| 6. What are the differences between Vertical Scalability and Horizontal Scalability? | |

Group – C

(Long Answer Type Questions)

Answer any three of the following.

15×3=45

7. (a) Write about VMware's vSphere Cloud Computing Infrastructure Model.
(b) What are the advantages of Virtualizations? <http://www.makaut.com> 9+6=15
8. What are the concepts about IaaS, PaaS and SaaS? Explain each with appropriate schematic diagram with example. 6+9=15
9. (a) What is Life Cycle of Cloud Computing? Explain.
(b) Write about NIST Model. 7+8=15
10. What is Eucalyptus? Explain the Eucalyptus architecture with diagram. Write about Walrus, Storage controller, VMware Broker. 2+8+5=15
11. Write short notes: (any three) 5×3=15
- (a) EC2
 - (b) Windows Azure Service <http://www.makaut.com>
 - (c) Amazon AWS
 - (d) P2V, D2C
 - (e) Virtual Machine
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