



PAS-003-1082003

Seat No. _____

**M. Sc. and I.T. (Sem. II) (CBCS) W.E.F. 2016
Examination**

August/September – 2020

CS.09 : Cloud Computing

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instructions :

- (1) All main questions are compulsory.
- (2) Draw diagrams wherever necessary.

(Unit -1)

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| 1 | (a) Objective type questions : | 4 |
| | <ol style="list-style-type: none">(1) Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (True/False).(2) _____ capability provided to the consumer is provisioned for processing, storage, networks, and other fundamental computing resources.(3) _____ Cloud infrastructure is provisioned for exclusive use by a single organization comprising multiple consumers.(4) Full form of NIST. | |
| 1 | (b) Answer in brief : (any 1 out of 2) | 2 |
| | <ol style="list-style-type: none">(1) Write difference between Grid computing and cluster computing.(2) Explain Hybrid Cloud in detail. | |
| 1 | (c) Answer in detail : (any 1 out of 2) | 3 |
| | <ol style="list-style-type: none">(1) Write the in detail about Cloud Service models.(2) Write the benefit of cloud computing. | |

- 1 (d) Write short notes : (any 1 out of 2) 5
- (1) Write short note on Software as Service.
 - (2) How cloud computing works ? Explain role of network in cloud computing.

(Unit 2)

- 2 (a) Objective type of questions : 4
- (1) _____ Virtual machines are installed over a host operating system.
 - (2) Full form of VMM _____.
 - (3) Full form of AWS _____.
 - (4) Data integrity demands maintaining and assuring the accuracy and completeness of data. (True/False)
- 2 (b) Answer in brief : (any 1 out of 2) 2
- (1) Describe Host level security.
 - (2) What is Eucalyptus ?
- 2 (c) Answer in detail : (any 1 out of 2) 3
- (1) Explain cloud security challenges in detail.
 - (2) What is VM ? Write difference between Type 1 and Type 2 virtual machine.
- 2 (d) Write short note : (any 1 out of 2) 5
- (1) What is virtualization ? Explain use of Hypervisor in detail.
 - (2) Write short note on Infrastructure as Service (IaaS).

(Unit 3)

- 3 (a) Objective type of questions : 4
- (1) A SOA also includes a set of cloud services. (True/False)
 - (2) Give full form of SLA _____
 - (3) Web OS 2.0 is user friendly as well as provides real-time discussion. (True/False)
 - (4) Give full form of SOA _____.

- 3 (b) Answer in brief : (any 1 out of 2) 2
 (1) What is salesforce ?
 (2) What is Google App Engine ?
- 3 (c) Answer in detail : (any 1 out of 2) 3
 (1) Explain Life cycle of SLA in detail.
 (2) Explain in detail about Microsoft Azure.
- 3 (d) Write short note : (any 1 out of 2) 5
 (1) What is Software as a Service (SaaS) ? Explain in detail.
 (2) Write short note on Web OS.

(Unit 4)

- 4 (a) Objective type of questions : 4
 (1) Xen hypervisor runs on top of a Microsoft host OS.
 (True/False)
 (2) _____ is a hardware virtualization technique that
 allows multiple guest operating systems (OS) to run
 on a single host system at the same time.
 (3) _____ is the server virtualization platform developed
 by Microsoft.
 (4) Each virtual machine has its own set of virtual hardware.
 (True/False)
- 4 (b) Answer in brief : (any 1 out of 2) 2
 (1) What is Xen-Server Hypervisor ?
 (2) Write steps for Virtual Machine implementation.
- 4 (c) Answer in detail : (any 1 out of 2) 3
 (1) Write advantages of Virtualizations.
 (2) Explain type of Virtual Machines in detail.
- 4 (d) Write short note : (any 1 out of 2) 5
 (1) What is Virtualization ? Explain feature of Virtualizations.
 (2) Describe history and objectives of Virtualizations.

(Unit 5)

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| 5 | (a) Objective type of questions. | 4 |
| | (1) Full form of EUCALYPTUS. | |
| | (2) Full form of EC2. | |
| | (3) What is Multi-tenant ? | |
| | (4) VMWare | |
| 5 | (b) Answer in brief : (any 1 out of 2) | 2 |
| | (1) Describe components of Eucalptus. | |
| | (2) What is Amazon EC2 instances ? | |
| 5 | (c) Answer in detail : (any 1 out of 2) | 3 |
| | (1) Write steps to launch virtual server instance in cloud computing. | |
| | (2) Describe Microsoft Azure as a cloud computing service. | |
| 5 | (d) Write short note : (any 1 out of 2) | 5 |
| | (1) Explain Web Services provided by Amazon in detail. | |
| | (2) Write case study on Microsoft Azure. | |
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