



BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme – B.Tech.(CSE)-AIML-2021/B.Tech.(CSE)-AIML-2022

Course Name – Cloud Computing Course Code - PEC-CSM501C

(Semester V)

Library
Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) Identify which of the following is an essential concept related to Cloud.
 - a) Reliability

b) Availability

c) Abstraction

- d) Productivity
- (ii) State which of the following can be identified as cloud?
 - a) Web application

b) Hadoop

c) Intranet

- d) All of these
- (iii) Select which of the following is known as a virtual version of computing resources.
 - a) Real machine

b) Cloud machine

c) Virtual machine

- d) None of these
- (iv) Select the transparency that enables accessing local and remote resources using identical operations
 - a) Concurrency Transparency

b) Migration Transparency

c) Access Transparency

- d) Scaling Transparency
- (v) Select the dynamic connection that grows into dynamic networks of networks
 - a) Cyber cycle

b) loT

c) Cyber-physical systems

- d) Multithreading
- (vi) Recall the architecture in which no special machines manage network resources is known as
 - a) Peer-to-Peer

b) Master-slave

c) Tightly-coupled

- d) Losely-coupled
- (vii) Select the most important feature of cloud storage listed below
 - a) Bare file

b) Logon authentication

(viii) Associate random writes into files in GFS (Goog	le File System) are	
a) Frequent	b) Very frequent	
c) Very less	d) None of these	
(ix) Indicate, In GFS (Google File System) files are d		
a) Variable sizec) Both fixed and variable sized chunks	b) Fixed size	
(x) Distinguish what does Virtualization Security M	d) None of these	
a) Managing Virtual Reality Devices	b) Securing Virtual Machines	
c) Cloud Network Optimization	d) Cloud Resource Allocation	
(xi) Identify the role of Cloud Computing Security A		
a) Ensuring Cloud Service Availability	b) Designing User Interfaces	
c) Managing Cloud Costs	d) Defining Security Policies and Contro	ols
(xii) Predict which security principle involves verifyir appropriate access privileges?	ig the user's identity and granting	
a) Authorization	b) Authentication	
c) Encryption	d) Integrity	
(xiii) State which these is NOT typically associated wi	th cloud computing	
a) Blockchain	b) Virtualization	
c) Serverless computing	d) Containers	
(xiv) Identify the right exapnsion of SaaS in the conte		
a) Software as a Service	b) System as a Solution	
c) Storage as a Service(xv) State which cloud deployment model provides r	d) Server as a Service	
	b) Public Cloud	
a) Private Cloud c) Hybrid Cloud	d) Community Cloud	
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Grou	•	
(Short Answer T	ype Questions)	3 x 5=15
2. Discuss the features of Coogle App Engine		(3)
2. Discuss the features of Google App Engine.3. Explain the different web service components.	,	(3)
4. Examine the role of API in cloud computing.		(3)
5. Illustrate the major challenges in Cloud Computing		(3)
6. Analyze the benefits and challenges of Cloud Securi		(3)
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Explain the concept of Zero Trust Security in Cloud	computing.	(3)
Grou	ıр-C	
(Long Answer Ty	/pe Questions)	5 x 6=30
7. State the features of fog computing.		(5)
8. Differentiate Private cloud from Public cloud.		(5)
9. Analyze the role of Hadoop clusters.		(5)
10. State the role of hypervisor.		(5)
11. Summarize the usages of fog computing.	- Di	(5)
12. Assess the need for a hypervisor in cloud environm	ient.	(5)

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in cloud environment
(5) in cloud environment.