

Roll No.

Total No. of Pages: 01

Total No. of Questions: 07

B.Sc.(CS) / B.Sc. AIML, Semester- 5th

CLOUD COMPUTING

Subject Code: UGCA 1936

M.Code: 94071 / 92418

Date of Examination: 01-12-2025

Time: 3 Hrs.

Max. Marks:60

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B consists of SIX questions, carrying TEN marks each and student have to attempt any FOUR questions.

Q. No.	Question	Course Outcome	Bloom's Level
SECTION-A			
1.	Answer briefly:		
a.	Define the term "Cloud Vision".	CO1	L1
b.	Explain any two names of cloud delivery models.	CO1	L2
c.	Compare cluster computing and cloud computing.	CO2	L1
d.	Illustrate two benefits of migrating to cloud.	CO2	L2
e.	List any four characteristics of virtualization.	CO3	L1
f.	Explain the term "virtual machine".	CO3	L2
g.	What is the data tenancy in cloud storage?	CO5	L1
h.	Compare Baseline measurements and Metrics-Baseline Measurements.	CO4	L2
i.	Define the concept of system matrices.	CO4	L1
j.	Interpret the purpose of cloud auditing.	CO5	L2
SECTION-B			
2.	Identify the components and characteristics of distributed computing in details.	CO1	L3
3.	Analyze cloud migration model with its steps. Also explain the cloud generalization.	CO2	L4
4.	Explain Hypervisor Technology. Show the importance of Xen, VMware, Microsoft Hyper-V in Hypervisor Technology.	CO3	L5
5.	Explain the role of SQL Azure in cloud data management with the help of example.	CO4	L5
6.	Identify the cost model of AWS with suitable example.	CO4	L3
7.	Examine how Google App Engine (GAE) works? Describe its main features.	CO5	L4

Note: Disclosure of identity by writing mobile number or making of passing request on any paper of Answer Sheet will lead to UMC against the student.

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Total No. of Questions: 07

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B.Sc.(CS), Semester- 5th
ADVANCED WEB TECHNOLOGIES

Subject Code: UGCA 2019

M.Code: 94063

Date of Examination: 21-11-2025

Time: 3 Hrs.

Max. Marks:60

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B consists of SIX questions, carrying TEN marks each and student have to attempt any FOUR questions.

Q. No.	Question	Course Outcome	Bloom's Level
SECTION-A			
1.	Answer briefly:		
a.	Why is PHP called a server-side scripting language?	CO1	L1
b.	Show the use of while() loop in displaying query results in a table?	CO1	L2
c.	Define Document Object Model (DOM).	CO2	L1
d.	Compare HTTP and HTTPS.	CO2	L2
e.	What is the use of mysqli_close().	CO3	L1
f.	Demonstrate how do we combine PHP and HTML to print database records?	CO3	L2
g.	Define MySQL.	CO3	L1
h.	Demonstrate two features of React Components.	CO4	L2
i.	Define E-Mail.	CO4	L1
j.	Demonstrate the use of AJAX for fetching data.	CO2	L2
SECTION-B			
2.	Apply OOPS concept described in PHP.	CO1	L3
3.	Explain AJAX in detail. Discuss its architecture, working mechanism, advantages, limitations, and real-time applications.	CO2	L5
4.	Build the key features of jQuery, such as date picker and auto complete and explain their impact on improving user interface experiences in web application.	CO3	L3
5.	Analyze the various web services available with example.	CO4	L4
6.	Build the components of Bootstrap in detail.	CO3	L4
7.	Explain Node.js with example.	CO4	L5

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B.SC.CS, SEMESTER-5th

FIREWALL & INTRUSION DETECTION

SUBJECT CODE: UGCA2028

M.CODE: 94073

DATE OF EXAMINATION: 04-12-2025

Time: 3 Hrs.

Max. Marks:60

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B consists of SIX questions, carrying TEN marks each and student have to attempt any FOUR questions.

Q. No.	Question	Course Outcome	Bloom's Level
SECTION-A			
1.	Answer briefly:		
a.	Who are intruders in the context of system security?	CO-1	L1
b.	Outline the spoofing in network security?	CO-1	L2
c.	What are fingerprint scanners and how do they work?	CO-2	L1
d.	Illustrate security policy and explain its purpose.	CO-2	L2
e.	What is role-based access control (RBAC)?	CO-2	L1
f.	What is a host-based intrusion detection system?	CO-3	L1
g.	Explain any two common firewall policy rules.	CO-3	L2
h.	Explain the cryptology.	CO-4	L2
i.	Define transport mode in IPSec.	CO-4	L1
j.	Explain the purpose of the IT Act,2000.	CO-4	L2
SECTION-B			
2.	Utilize the intruders in cybersecurity? Describe different types of intruders and how they compromise systems.	CO-1	L3
3.	Explain the role of access control policies in securing systems. How are policies created, enforced, and monitored?	CO-2	L5
4.	Identify the limitations and vulnerabilities of password-based authentication systems. Provide examples of attacks.	CO-2	L3

5.	Compare and contrast packet filtering firewalls and stateful inspection firewalls.	CO-3	L4
6.	Differentiate between Vulnerability Assessment and Intrusion Detection. How do they complement each other in network security?	CO-3	L4
7.	Evaluate the importance of cryptography in modern digital communication. What are its main applications and challenges?	CO-4	L5

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