Roll No:

Hi-Tech Institute of Engineering & Technology, Ghaziabad. DEPARTMENT OF MCA (SEM-I) ODD EXAMINATION 2023-24 Subject Code: KCA -014 Subject Name: CLOUD COMPUTING

SECTION-A

Time: 3: 00 Hours Note: 1. Attempt all Sections.

Total Marks: 100

1. Attempt all question in brief.

Q.N	Question	Marks	CO
0			
a.	Define threat Agents? Explain their role in cloud security.	2	1
b.	What are security services in the cloud?	2	1
c.	What is encryption? Define the types of encryption.	2	1
d.	What is utility computing?	2	1
e.	What is IaaS, PaaS, and SaaS?	2	3
F	What is VM network routing?	2	2
g.	Give some examples of Web 2.0 applications.	2	3
h.	What are IaaS, PaaS and SaaS ?	2	4
i.	What are security services in the cloud?	2	5
j.	What are modules of Hadoop?	2	3

SECTION-B

2. Attempt any four of the following:

3. Attempt any one part of the following:

10x3 = 30

Q.N	Question	Marks	CO
0			
a.	What is virtual desktop infrastructure? Explain with diagram.	10	1
b.	What is hypervisor ? explain in detail with necessary illustrations.	10	1
c.	Explain virtual LAN (VLAN) AND virtual SAN(VSAN) in cloud computing.	10	3
d.	Explain the cloud computing security architecture using suitable block diagram.	10	4
e	What do you understand by service oriented Architecture (SOA) ? how does it support cloud computing?	10	5

SECTION-C

10*1 = 10

Q.No	Question	Marks	CO
a.	Explain the major cloud features of Google applications engine	10	1
b.	What do you mean by third party cloud services? Give suitable examples	10	3

2x 10 = 20

4. Attempt any one part of the following:

Q.No	Question	Marks	CO
a.	Give a suitable definition of cloud federation stack and explain it in detail.	10	2
b.	Write short notes on any two of the followings:	10	3
	i. HADOOP ii. Microsoft Azure		

5. Attempt any one part of the following:

Q.No	Question	Marks	CO
a.	Discuss about the role of DMTF in refrence to cloud security.	10	5
b.	Determine the concept of groupware in clouds also discuss its pros and cons.	10	3

6. Attempt any one part of the following:

10*1 = 10

Q.No	Question	Marks	CO
a.	Draw the architecture of Nimbus and explain its components	10	5
b.	Explain several property and characterstics exhibited by cloud computing.	10	3

7. Attempt any one part of the following:

10*1 = 10

Q.No	Question	Marks	CO
a.	List five public cloud offering of PaaS.explain briefly	10	3
b.	Explain in detail hypervisior.	10	2

10*1 = 10