GANPAT UNIVERSITY
B. TECH SEM - VI COMPUTER ENGINEERING/INFORMATION TECHNOLOGY
REGULAR EXAMINATION APRIL - JUNE 2017
2CE609/2IT609: Cloud Computing

Time: 3 Hours   Total Marks: 60

Instruction:
1. Attempt all questions.
2. Figures to the right indicate full marks
3. Each section should be written in a separate answer book

SECTION – I

Que. – 1	(A)	What is cloud computing? Discuss the need of cloud computing.	[3]
	(B)	Explain various types of service models of cloud.	[3]
	(C)	Discuss server virtualization in brief.	[4]

OR

Que. – 1	(A)	Discuss public, private, community and hybrid cloud in brief.	[4]
	(B)	Explain essential characteristics of cloud computing.	[3]
	(C)	What is virtual computing? Explain system virtual machine and process virtual machine	[3]

Que. – 2	(A)	Discuss Hadoop Map reduce architecture in brief.	[3]
	(B)	Explain advantages of IaaS in detail.	[3]
	(C)	Discuss virtual machine provisioning process in brief.	[4]

OR

Que. – 2	(A)	Discuss Hot, Cold and live storage migration techniques in brief.	[3]
	(B)	What is AWS? Explain EC2 and S3 service of AWS.	[3]
	(C)	Explain basic Infrastructure as a Service (IaaS) characteristics.	[4]

Que. – 3	(A)	Explain Google File System architecture in detail.	[4]
	(B)	What is aneka? Explain features of aneka.	[4]
	(C)	Discuss advantages and disadvantages of stateless and statefull server.	[2]

[P. T.O]

SECTION – II

Que. – 4 (A) Explain web service architecture in detail. [3]

(B) Discuss SOAP and UDDI for web service. [2]

(C) Explain SaaS model by Forrester Research. [5]

OR

Que. – 4 (A) Explain advantages of web service in detail. [2]

(B) Discuss WSDL structure in brief. [3]

(C) Explain SaaS simple maturity model by Microsoft Corporation. [5]

Que. – 5 (A) Discuss Platform-as-a-Service reference model in detail. [5]

(B) What are the security issues in cloud computing? Discuss solutions to security issues. [5]

OR

Que. – 5 (A) Explain threat model and its components of security in detail. [5]

(B) Explain different PaaS implementations categories. List out key characteristics of PaaS. [5]

Que. – 6 (A) Explain Windows Azure platform in detail. [4]

(B) Differentiate grid, cloud and cluster computing. [3]

(C) What is Openstack ? Why to use Openstack? [3]

END OF PAPER