

GURU NANAK INSTITUTE OF TECHNOLOGY
An Autonomous Institute under MAKAUT
2022
CLOUD COMPUTING
IT701A

TIME ALLOTTED: 3HR

FULL MARKS:70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable

GROUP – A

(Multiple Choice Type Questions)

Answer any **ten** from the following, choosing the correct alternative of each question: **10×1=10**

- | | Marks | CO No |
|---|--------------|--------------|
| 1. i) What is Cloud Computing? | 1 | CO3 |
| a) Cloud Computing means providing services like storage, servers, database, networking, etc. | | |
| b) Cloud Computing means storing data in a database | | |
| c) Cloud Computing is a tool used to create an application | | |
| d) None of the mentioned | | |
| ii) Point out the wrong statement: | 1 | CO3 |
| a) All applications benefit from deployment in the cloud | | |
| b) With cloud computing, you can start very small and become big very fast | | |
| c) Cloud computing is revolutionary, even if the technology it is built on is evolutionary | | |
| d) None of the mentioned | | |
| iii) Which of the following is not a type of cloud server? | 1 | CO3 |
| a) Merged Cloud Server | | |
| b) Private Cloud Servers | | |
| c) Dedicated Cloud Servers | | |
| d) Public Cloud Servers | | |
| iv) Which of the following is a type of cloud computing service? | 1 | CO3 |
| a) Software-as-a-Service (SaaS) | | |
| b) Software-and-a-Server (SaaS) | | |
| c) Service as Software (SaaS) | | |
| d) Software-as-a-Server (SaaS) | | |
| v) Which of the following can be identified as cloud? | 1 | CO3 |
| a) Web Applications | | |
| b) Intranet | | |
| c) Hadoop | | |
| d) All of the mentioned | | |

- | | | |
|--|---|-----|
| vi) Cloud computing is a _____ system and it is necessarily unidirectional in nature. | 1 | CO3 |
| a) Stateless | | |
| b) Stateful | | |
| c) Reliable | | |
| d) All the mentioned | | |
| vii) Which of the following model attempts to categorize a cloud network based on four dimensional factors? | 1 | CO3 |
| a) Cloud Cube | | |
| b) Cloud Square | | |
| c) Cloud Service | | |
| d) All of the mentioned | | |
| viii) Which architectural layer is used as a backend in cloud computing? | 1 | CO3 |
| a) Cloud | | |
| b) Soft | | |
| c) Client | | |
| d) all of the mentioned | | |
| ix) Point out the wrong statement. | 1 | CO3 |
| a) Cloud services span the gamut of computer applications | | |
| b) The impact of cloud computing on network communication is to discourage the use of open-source network protocols in place of proprietary protocol | | |
| c) Atom is a syndication format that allows for HTTP protocols to create and update information | | |
| d) None of the mentioned | | |
| x) Which of the following lets a Web service advertise itself in terms of a collection of endpoints? | 1 | CO3 |
| a) WSDL | | |
| b) VMc | | |
| c) SOAP | | |
| d) All of the mentioned | | |
| xi) Into which expenditures does Cloud computing shifts capital expenditures? | 1 | CO3 |
| a) Local | | |
| b) Operating | | |
| c) Service | | |
| d) none of the mentioned | | |

GROUP – B

(Short Answer Type Questions)

(Answer any *three* of the following) **3 x 5 = 15**

- | | | | |
|----|---|-------------------|---------------------|
| 2. | What do you mean by cloud computing? Discuss about the advantages and disadvantages of cloud computing? | Marks
5 | CO No
CO2 |
|----|---|-------------------|---------------------|

3. a.	Mention three significant characteristics of a typical SaaS solution	3	CO2
b.	What are the functions of Google Analytics?	2	CO1
4. a.	Discuss three main advantages and three major disadvantage of cloud computing with suitable example.	3	CO2
b.	Determine role of cloud computing in healthcare application.	2	CO1
5.	Explain the full form and the usage of 'Eucalyptus' in Cloud Computing.	5	CO2
6.	What are the characteristics of cloud architecture that differ from traditional cloud architecture?	5	CO4

GROUP – C

(Long Answer Type Questions)

(Answer any *three* of the following) **3 x 15 = 45**

		Marks	CO No
7. a.	What data base related services cloud can provide	5	CO1
b.	Discuss about two Data base services provided by Google cloud	5	CO2
c.	Analyze the concept of virtualization	5	CO4
8. a.	Suppose you are going to establish an startup HR firm. Justify that it would be better to use cloud service	7	CO1
b.	Suppose you are providing an cloud based health care application for a hospital having features of online doctor's appointment, online booking for bed, different medical tests also, Remote access to patient , remote monitoring for critical patient, Employee management , Employee payroll, Visitor log maintain, online payment. Justify what kind of cloud service and deployment models you will provide to client for different features described above.	8	CO3
9. a.	Describe the architecture of Windows azure.	7	CO2
b.	What is the service level Agreement.Explain about the security controls classified in cloud computing.	8	CO1
10. a.	Evaluate the performance of cloud computing in healthcare industries	5	CO4
b.	Design a cloud based employee management system architecture deployed in cloud.	10	CO2
11.	Write Short note: (Any three)	3*5=15	
a.	CRM	5	CO4
b.	ERP	5	CO1
c.	AWS	5	CO2
d.	VLAN	5	CO2
e.	Hadoop	5	CO3