

## **Institute of Information Technology**

## Jahangirnagar University Professional Masters in IT

## 2nd Semester Final Examination, Spring 2023

**Duration: 3 Hours** 

Intake: Fall 2022, Summer 2022

Full Marks: 60

Course Code: PMIT - 6201

**Course Title: Cloud and Computing** 

## Do not write anything on the question paper.

There are 7 (Seven) questions. Answer any 5 (Five) of them.

Figures in the right margin indicate marks.

[Follow the question order]

1.	а.	What is cloud computing? How can we discriminate whether a service is delivered as cloud computing style or not?	5
	b. c.	Briefly describe the paradigm of cloud computing. Write down the challenges of cloud computing.	5 2
2.	a. b.	Write down the distinct characteristics of client-server model.  How two-tier architecture differs from three tier architecture? Explain with an example.	4 4
	c.	What is distributed system? Write down the properties of a distributed system.	4
3.	a. b.	How mobile computing differs from ubiquitous computing? Explain with example. Why transparency is important for the design of a distributed system? Briefly explain different types of transparency.	4
	c.	Briefly describe the hardware architecture of parallel processing.	4
4.	a. b. c.	Why would software developers prefer to choose PaaS model instead of laaS? Explain. What is laaS? Briefly describe about different components of laaS model. What are the potential drawbacks of using PaaS model?	4 6 2
5.	a. b.	Briefly describe the reason why industry should migrate to cloud environment. What is SOA? Briefly describe how SOA works.	6 6
6.	a. b.	What is system monitoring? What should be monitored in cloud? What is accessibility and portability? How these can be the essential characteristics of cloud computing? Explain.	3
	c.	What is virtualization? Briefly describe the reasons of virtualization.	6
7.	a. b.	Briefly describe about different layers of cloud architecture.  Write down the distinct features of cloud applications that make them different from web applications.	4
	C.	While migrating to cloud environment what options are there for the companies to adopt for migration? Explain each option	4