

## **Institute of Information Technology**

## Jahangirnagar University Professional Masters in IT

## 2nd Semester Final Examination, Fall 2022

**Duration: 3 Hours** 

Intake: Summer 2022, Spring 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.	a. b. c.	What is cloud computing? What are the challenges of cloud computing? Explain. How does service-oriented computing differs from utility computing? Explain. Briefly describe the computing paradigm.	4 4 4
2.	a. b.	What is distributed system? What are the properties of a distributed system? What do you mean by "transparent distributed system"? When you can say a distributed system as fully transparent? Explain.	4 6
	c.	How grid computing differs from clustered computing?	2
3.	a.	What is parallel processing? Briefly describe the hardware architecture of parallel processing.	6
	b.	What is software architecture style of distributed system? How Data cantered architecture works? Explain.	4
	c.	How much benefit an application or software gain from parallelism?	2
4.	a. b.	How two-tier architecture can differ from three-tier architecture? Explain. What is software agent? Why is software agent required? Explain with an example.	2 5
	c.	What is RPC? How it works? Explain.	5
5.	a.	Briefly describe the properties of cloud computing that are supported by virtualization.	8
	b.	What is control automation? How does these properties can be achieved?	4
6.	a. b. c.	and the state of Son.	4 3 5
7.	a. b.	The state of the state than outsiness into cloud?	5 5
	c.	What are the potential drawbacks of PaaS?	2