ourdiu.com | Shared by Maisha Rahman

Daffodil International University

Department of Information Technology & Management

Faculty of Science & Information Technology

Mid-Term Examination, Spring 2024

Course Code:ITM4 18; Course Title:Distributed System & cloud computing

Sections & Teachers: All

Time: 1:30 Hrs **Marks: 25**

Answer ALL Questions

[The figures in the right margin indicate the full marks. All portions of each question must be answered sequentially.]

1.	*a)*	**What** is the transparency of a distributed system? **Differentiate** between Access and location transparency.	[Marks-3]
	b)	**Differentiate** among public, private and hybrid clouds.	[Marks-3]
2.	*a)*	**Draw** the system architecture for Infrastructure as a Service(IaaS) and **explain** two main components.	[Marks-5]
3.	*a)*	Suppose, A startup is developing a new web application and wants to focus solely on coding without worrying about server management or infrastructure. They seek a solution that offers built-in services like database management,testing, debugging and automatic scaling, allowing them to quickly deploy their application and easily handle fluctuations in user demand. **Propose** an appropriate cloud service model and justify your suggestion.	[Marks-5]
4.	*a)*	Suppose you are using a web-based software whereas your friend is using a traditional software. What extra benefits will you get using this hosted software? **Discuss** at least 4 such benefits.	[Marks-4]
5.	*a)*	What is legacy infrastructure? **Explain** with an example.	[Marks-2]
	b)	Suppose you are currently using your own resources but due to some reasons, you have decided to migrate to cloud services. **Analyze** the potential challenges you will face.	[Marks-3]