



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]