Question Paper Code	12585

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024
Seventh Semester
Information Technology
20ITEL708 - FULL STACK SOFTWARE DEVELOPMENT
Regulations - 2020

Duration: 3 Hours   Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks	K-Level	CO
1.	List any two technologies essential for full stack development.	2	K1	CO1
2.	Define Web service.	2	K1	CO1
3.	Differentiate buttons and button group controls.	2	K2	CO2
4.	Identify the purpose of jQuery.	2	K2	CO2
5.	Write the syntax to create a Class component in React.	2	K1	CO3
6.	Differentiate Spread and Rest operator.	2	K2	CO3
7.	Mention the use of forms in Spring framework.	2	K1	CO4
8.	Define Collection Mapping.	2	K1	CO4
9.	Identify the use of Microservices.	2	K2	CO5
10.	Define a Docker.	2	K1	CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

			Marks	K-Level	CO
11.	a)	Explain the architecture of full stack development with a neat diagram.	13	K2	CO1
		OR			
	b)	Explain the basic building blocks of Javascript with its syntax and examples.	13	K2	CO1
12.	a)	Summarize the concept of Typography and colors in bootstrap.	13	K2	CO2
		OR			
	b)	Illustrate the concepts of events and effects in jQuery with examples.	13	K2	CO2
13.	a)	Explain the syntax and usage of any five NPM commands.	13	K2	CO3
		OR			
	b)	Elucidate the concept of namespaces in React.	13	K2	CO3
14.	a)	With a neat diagram, explain the Spring architecture and its components.	13	K2	CO4

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **12585**

  b) Explain how inheritance mapping is done using Hibernate.   *13 K2 CO4*

15. a) Elucidate the Kubernetes architecture with a neat diagram.   *13 K2 CO5*

OR

  b) Explain the process of building Docker images and deploying to Docker hub.   *13 K2 CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Explain briefly about Deploying Docker Hub.   *15 K2 CO6*

OR

  b) Explain briefly about Kubernetes and container operations.   *15 K2 CO6*