



R20 Regulation

Subject code: 3E6FC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VI Semester Supplementary Examinations, February 2024

STACK TECHNOLOGIES

(Information Technology)

Maximum Marks: 70

Date:17.02.2024 Duration: 3 hours

- Note:
- 1.This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks		(10X2M=20 Marks)	CO	Bloom Tx
1	What is Hibernate used for?		CO1	L1
2	State the 3 states of object in hibernate.		CO1	L1
3	Mention the advantages of using Spring.		CO2	L2
4	How do you wire beans in Spring?		CO2	L1
5	Is Spring Boot full stack?		CO3	L1
6	Where do we use the spring boot?		CO3	L1
7	Can React be used for full stack?		CO4	L1
8	List out the major companies that go into a React application.		CO4	L1
9	Define NodeJS and ReactJS.		CO5	L1
10	Why NodeJS is used in React?		CO5	L1

Part-B

Answer All the following questions.		(5X10M=50Marks)		
11	Construct the procedure for integrating and configuring the Hibernate.10M		CO1	L3
OR				
12	A. Outline the persistence life cycle and explain the states and their transitions using a state chart.5M B. Define mapping. Elaborate the concept of mapping with annotations.5M		CO1	L2
13	How to build the Spring web applications? Describe in detail.5M		CO2	L2
OR				
14	Assess the task of creating REST APIs with Spring MVC.10M		CO2	L2
15	Develop the plan of action for creating an application using Spring Boot. 10M		CO3	L3
OR				
16	Analyze the steps to be followed for fetching the data from database in Spring MVC application. 10M		CO3	L4

17	Illustrate the strategy related to data and dataflow in React. 10M	CO4	L2
	OR		
18	Explain the rendering and lifecycle methods in React JS. 10M	CO4	L2
19	A. What is Express JS used for? Explain its approach in detail. 5M B. Summarize and describe the advantages of Express framework. 5M	CO5	L2
	OR		
20	Where are Node.js modules located? Discuss the usage of Node.js modules. 10M	CO5	L2