



R20 Regulation

Subject code:3E6FC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, May 2025

STACK TECHNOLOGIES

(IT)

Maximum Marks: 70

Date: 18.06.2025

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.
  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)		Marks	CO	BTL
1	What is session factory in hibernate?	2M	1	L1
2	Define criteria in terms of Hibernate.	2M	1	L1
3	What is dependency injection?	2M	2	L1
4	What is autowiring?	2M	2	L1
5	What are the advantages of Spring Boot?	2M	3	L1
6	What is @RestController annotation in Spring Boot?	2M	3	L1
7	What are props in React?	2M	4	L1
8	Define React Hooks.	2M	4	L1
9	In which types of applications is Node.js most frequently used.	2M	5	L1
10	What are some distinctive features of Express?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Differentiate Framework, Technology and Languages. b) Explain CRUD operations in Hibernate.	6M 4M	1	L4 L2
OR				
12	Explain Core components of Hibernate Framework.	10M	1	L2
13	What is a Bean? Explain scopes of Bean?	10M	2	L2
OR				
14	Explain concept of Dependency Injection with its types.	10M	2	L2
15	How to integrate Spring Boot with Hibernate and JPA?	10M	3	L2
OR				
16	Explain about Spring Boot CRUD Operations with an example.	10M	3	L2
17	a) Write about mutable and immutable states. b) Explain about useState and useEffect in React.	4M 6M	4	L2
OR				
18	Implement integration of third-party libraries with React.	10M	4	L2
19	Illustrate different modules used in Node.js?	10M	5	L3
OR				
20	Explain Express Js Routing.	10M	5	L3