



R20 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

Subject code:3E6FC

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

B.Tech VI Semester Regular Examinations, June/July 2023

STACK TECHNOLOGIES
(Information Technology)

Maximum Marks: 70

Date:24.06.2023 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)

- 1 Write the advantages of Hibernate.
- 2 List out the methods used in Hibernate.
- 3 What is Spring used for?
- 4 Why spring is better than Java?
- 5 State the difference between Spring Boot and Java.
- 6 Is spring boot a backend?
- 7 Define states in react.
- 8 Name the companies using React to power their products.
- 9 Mention the 3 types in NodeJS.
- 10 Which type of application is NodeJS?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain in detail about Hibernate architecture, advantages and limitations. 10M
- OR
- 12 A. Interpret the approach for building a simple application using Hibernate. 5M
B. How do we get a session in Hibernate? Describe the procedure for using the session. 5M
- 13 A. Illustrate the mechanism for building the Spring web applications. 5M
B. Explain the concept of auto wiring. 5M
- OR
- 14 A. Elaborate the approach of persisting data with object-relational mapping. 5M
B. Analyze the functionality of hitting the database with Spring and JDBC. 5M
- 15 Can we create standalone applications using Spring Boot? Assess the basic concepts of Spring Boot. 10M
- OR
- 16 Diagnose the role of Spring MVC in building the web applications. 10M

- 17 A. With a neat diagram, describe the major ingredients that go into a React application. 5M
B. Assess the strategy for working with the forms in React. 5M
- OR
- 18 A. Inspect the built-in methods in React that gets called when a component is updated. 5M
B. Outline the task of integrating the third-party libraries with React. 5M
- 19 A. Summarize and discuss the basic features of the Express framework. 5M
B. Infer the plan of action for implementing MVC in Express. 5M
- OR
- 20 A. Describe various types of modules available in Node JS. 5M
B. Explain the implementation of Node.js process model in detail. 5M