JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-IV Semester (CSE/IT)

COURSE CODE (CREDITS): 25B11CI417(3) MAX. MARKS: 15

COURSE NAME: ADVANCED FRONT-END

COURSE INSTRUCTOR: Ms. PALAK AAR MAX. TIME:1Hour

Note: *(a) All questions are compulsory.*

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Use of calculators is not allowed

UIT TEST EXAMINATION- FEB-2026

Q.No	Question	CO	Marks
Q1	A parent component passes a student's name, roll number, and current semester to a StudentDashboard functional component. Demonstrate how these values can be displayed using props and apply conditional rendering to indicate "Final Year Student" when the semester value meets the required condition.	1	3
Q2	In a PasswordVisibility functional component, clicking a button alternates the displayed text between "Show Password" and "Hide Password". Analyze how React state and event handling interact to control such UI behavior in a functional component.	2	3
Q3	A ProductList functional component is supplied with a collection of product objects through props, where each object contains name, price, category, and availability information. Use the array.map() method to present these details on the screen and analyze why map() is preferred over traditional looping constructs in React rendering.	1	3
Q4	Design a VotingSystem functional component that records votes for two candidates using React state. Apply the useState hook to update vote counts and determine the leading candidate after each vote. Evaluate how incorporating tie-handling logic and state-driven re-rendering helps maintain accurate and consistent UI output.	2	3
Q5	Write notes on the following: a) Hooks b) … operator c) Callback function d) Virtual DOM e) SPA f) JSX	1	3

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