

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-I Semester (CSE/IT/BT/ECE/CE)

COURSE CODE (CREDITS): 25B11CI517(3)

MAX. MARKS: 15

COURSE NAME: Advanced Wireframing, Prototyping and Responsive Design

COURSE INSTRUCTOR: Dr.Ruchi Verma

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

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

(c) Use of calculator is not allowed

Q.No	Question	CO	Marks
Q1	i. What is meant by information hierarchy in a wireframe? ii. Differentiate between global navigation and contextual actions. iii. What is the purpose of a grid in wireframe layout? iv. Define iteration in the context of low-fidelity UI/UX design. v. Name any two factors used to prioritize problems identified in a wireframe.	CO1	5
Q2	A team wants to determine whether students understand the sequence of screens in an online registration system. They propose implementing the complete database, authentication and payment modules before testing the interface. Critically analyse this approach from a UI/UX and software engineering perspective, and propose a rapid-prototyping strategy that can validate the interaction flow without implementing the complete backend.	CO2	4
Q3	A Computer Science student argues that hand-drawn sketches are unsuitable for technical UI/UX design because they lack visual accuracy. Analyse this argument from the perspective of interface modelling and explain how a hand-drawn sketch can represent user goals, interface states, controls and transitions before implementation.	CO1	3
Q4	During a review of a university laboratory-booking wireframe, the product owner requests additional business information, students report difficulty locating available slots, and the developer states that real-time availability cannot be supported by the current API. Analyse these three inputs as business requirements, usability evidence and technical constraints, respectively, and explain how they should be prioritized before modifying the wireframe	CO2	3