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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -2EXAMINATIONS- 2026

BCA-II Semester

COURSE CODE (CREDITS):**25BC1CI212(4)**

MAX MARKS: 25

COURSE NAME: **DATABSE MANAGEMENT SYSTEMS**

COURSE INSTRUCTOR:Deepika Bhaik MAX. TIME: 1 Hour 30 Min

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	Write a note on different types of Joins.	[CO3]	[5]
Q2	Write short notes with examples on : 1. BETWEEN, IN and GroupBy operators 2. DDL Statements	[CO3]	[3+2]
Q3	Consider a relation R(A, B, C,D,E) and Functional dependency Set : {A→B, BC→D, E →C, D →A } Find all the : 1. Candidate keys 2. Prime Attributes 3. Non Prime Attributes	[CO4]	[3+1+1]
Q4	Given a relation R(A, B, C, D, E, F) and Functional dependency Set : {C→F, E →A, EC →D, A →B} Check if the relation is in 2NF. Support your answer with proper explanation.	[CO4]	[5]
Q5	Write a program in PL/SQL to display the sum of first 10 natural numbers.	[CO3]	[5]

	productivity. Additionally, the organization is witnessing high attrition among newly hired employees, creating instability in teams. Another major challenge faced by the company is the over-reliance on job portals, which has resulted in poor-quality candidates being shortlisted. Moreover, the company does not have a structured interview and assessment process, making it difficult to evaluate candidates effectively. To address these issues, the HR team decided to implement Workforce Planning Analytics and Talent Acquisition Analytics. After analyzing past hiring data, the HR team discovered some important insights: • Employees hired through employee referrals performed better and stayed longer in the organization. • Candidates who scored well in online assessments showed higher job performance. • Workforce demand had not been forecasted properly, leading to urgent and unplanned hiring. Based on the case study Answer the following Questions Q1. Identify two major HR problems faced by BrightWave. Q2. Suggest how Workforce Planning Analytics can improve hiring efficiency. Q3. Recommend two data-driven strategies to improve talent sourcing quality.		
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