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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATIONS- 2026

BCA-II SEMESTER

COURSE CODE (CREDITS): 25BC1CI213

MAX. MARKS: 25

COURSE NAME: PYTHON

COURSE INSTRUCTORS:SRT

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	What are DataFrames? Write the steps involved with respect to DataFrames for the following- • Import and creating DataFrame • Reading data through csv file into a DataFrame • Viewing data (any 3 functions/ attributes)	CO-3	5
Q2	Highlight the difference between functions and functions used in functional programming?	CO-3	5
Q3	Explain the working of map and filter?	CO-3	5
Q4	Explain the concept of data visualization. Explain and write Python code for creating pair plot and correlation and heatmaps?	CO-4	5
Q5	Explain the different types of machine learning algorithms along with typical steps followed by an ML algorithm?	CO-3	5