

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2025

B.Tech-V Semester (IT)

COURSE CODE (CREDITS): 18B11CI315 (3)

MAX. MARKS: 25

COURSE NAME: Python Programming with Raspberry Pi

COURSE INSTRUCTORS: Dr. Vikas Baghel

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

Q.No	Question	CO	Marks
Q1	Explain how to create a new Python module. Provide a simple example of a custom module and show how to use it in another script. Also, create a Python class Car with attributes make, model, and year, including methods to get and set these attributes.	CO2	5
Q2	Describe how to list the contents of a directory in a shell and explain the purpose of the <i>pwd</i> command with an example of its use.	CO2	3
Q3	What is Leafpad Text Editor and its primary purpose? Explain the role of a Python web framework and name two popular frameworks.	CO3	3
Q4	Explain the basic structure of a Flask application, including routes, templates, and static files. Write a Flask application with two routes: homepage ("/") and contact page ("/contact") where the contact page displays a simple HTML form with a "Submit" button.	CO3	7
Q5	Explain how to handle user input in a Python game. Write a PyGame program to draw a red rectangle and handle quitting the game when the user closes the window. Name one library that can add sound or music to a Python game.	CO4	7