

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATIONS- 2026

B.Tech-IV Semester (BT/BI)

COURSE CODE (CREDITS): 25B11BT411

MAX MARKS: 25

COURSE NAME: Python for Bioinformatics

COURSE INSTRUCTOR: Dr. Shikha Mittal

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.	<p>Write the output –</p> <p>a. try:</p> <pre>x = int("abc") except ValueError: print("Value Error") finally: print("Done")</pre> <p>b. file = open("test.txt", "w") file.write("Hello\nWorld") file.close() file = open("test.txt", "r") print(file.read())</p> <p>c. def func(a, b=2): return a * b print(func(3)) print(func(3, 4))</p>	[III]	(6)
Q2.	<p>Differentiate between:</p> <p>a. Syntax Error vs Exception b. read(), readline(), readlines() c. Set and Dictionary</p>	[I, IV]	(6)
Q3.	<p>a. Write a Python program to create a custom exception for: Invalid DNA sequence length (&lt;10 bp) b. Write a function to calculate GC content of a DNA sequence</p>	[II, III]	(6)
Q4.	Create a user-defined module with functions:	[III, IV]	(3)

	i. Addition ii. Subtraction Import and use it in another script.		
<b>Q5.</b>	Explain the importance of indentation in Python. How does it differ from other programming languages?	[I]	(2)
<b>Q6.</b>	What is the difference between break, continue, and pass? Explain with examples.?	[II]	(2)

JUIT TEST-2 EXAMINATIONS- MARCH-2026