

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2023)**

**CLASS: BCA
BRANCH: BCA**

**SEMESTER : V
SESSION : MO/2023**

SUBJECT: CA277 PYTHON PROGRAMMING

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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			CO	BL
Q.1(a)	What is a high-level programming language? Explain difference between interpreter and compiler.	[2]	2	2
Q.1(b)	What are the basic data types in Python? How does Python decides the type of any variable? How a float is converted to an integer? Explain.	[3]	2	4
Q.2(a)	Describe the common types of programming errors that developers may encounter while writing Python programs.	[2]	2	3
Q.2(b)	Discuss operator precedence and the concept of evaluating expressions in Python. Provide an example that demonstrates how operator precedence affects the outcome of an expression.	[3]	2	4
Q.3(a)	Give the differences between int and eval. Explain ord and chr function with example.	[2]	2	2
Q.3(b)	How do you find the id and type for an object? What is a method?	[3]	2	2
Q.4(a)	Describe four mathematical functions of python.	[2]	2	2
Q.4(b)	Explain the differences between the if, if-else, and if-elif-else statements in Python. Provide code examples to demonstrate the usage and scenarios where each statement is preferred.	[3]	2	4
Q.5(a)	Explain the utility of break and continue statement with an example. What is none function?	[2]	3	1
Q.5(b)	Explain the difference among Positional arguments, Keyword arguments and Default arguments	[3]	3	2

:::22/09/2023 M:::