

GYANMANJARI INNOVATIVE UNIVERSITY

GYANMANJARI INSTITUTE OF TECHNOLOGY

B.Tech.-Mid Semester Examination (MSE)-S2026

Enrollment No.: _____

Subject Code: BETCE14307

Date: 24-03-2026

Subject Name: Python Programming

Semester: 4

Time: 02:30 PM to 04:30 PM

Total Marks: 60

Instructions:

1. Question No. 1 is compulsory.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	Marks
Q.1 (a) What is variable? What are rules for naming a variable?	05
(b) Explain input(), type(), print() function with example.	05
(c) What are operators in Python? List and briefly explain different types of operators with example and usage	10
Q.2 (a) Difference between for and while loop.	05
(b) Types of function in python with Example.	05
OR	
(b) Compare and contrast the break, continue, and pass statements.	05
(c) What are control statements in Python? Explain their importance with Example.	10
OR	
(c) How do you add elements to a list, and what is the difference between append() and extend() with Example?	10
Q.3 (a) What is a set in Python, and how is it different from a list and tuple?	05
(b) How do you handle exceptions in file operations, such as FileNotFoundError or IOError, using try...except blocks?	05
(c) What is a tuple in Python, and how is it different from a list? Why is a tuple considered immutable?	10
OR	
Q.3 (a) How do you open a file in Python, and what are the different file modes (r, w, a, etc.) used for?	05
(b) How do you write data to a file in Python using methods like write() and writelines()?	05
(c) What is a module in Python, and how does it help in organizing and reusing code explain with example?	10