Reg. No.:

Name :



MID TERM EXAMINATION - November 2024

Programme : B.Tech.	· Semester	:	Interim Semester 2024-25
Course Title: Python Programming	Course Code	:	CSE3011
Date/Session : 6 Nov 2024/Session II	Slot	-	B21+E14
Time : 1 ½ hours	Max. Marks	:	50

Answer all the Questions

Marks

Question Description

Explain the different types of operators in Python. Write a Python program that demonstrates these operators.

10

What will be the output of the code, and why? (i)

$$x = 10$$

$$y = 5$$
if $x > y$:

print("A")
if
$$x > 2 * y$$
:

else:

else:

10

Write a Python program that analyzes the given string "Python is great. Python is fun! Python is everywhere." and counts how many times each word appears in the sentence.

Discuss control flow statements in Python with examples. Write a Python program to 'create a vending machine that allows users to interact with a virtual machine where they can:

Insert money

Select items to purchase

Check their balance

Exit the machine

10

Explain the concept of functions in Python and write a Python program that implements a calculator using functions, taking user input for an operation and two numbers, then performing the specified operation using a dispatch dictionary to call the appropriate function.

Design a simple banking system using classes where you can create an account, deposit money, withdraw money, and check the balance.

10