Reg. No.:

Name :

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Mid-Term Examinations – April 2023

Programme	:	**B.Tech.**	Semester	:	**Summer 2022-23**
Course Title/ Course Code		**Introduction to Problem Solving and Programming**	Slot/ Class No.	:	**A11-A17**
Time	:	**1 ½ hours**	Max. Marks	:	**50**

Answer all the Questions

Q.No.	Question Description	Marks
1	Prepare an algorithm to count occurrence of vowels and consonants from the string. Use appropriate variables and naming with justifications.	**10**
2	Draw the flowchart for the below given algorithm. Step 1: Start Step 2: Declare variables first_term, second_term and temp. Step 3: Initialize variables first_term←0 second_term←1 Step 4: Display first term and second term Step 5: Repeat the steps until second_term≤1000 5.1: temp ←second_term 5.2: second_term ←second_term+first term 5.3: first_term←temp 5.4: Display second_term Step 6: Stop	**10**

3	Inspect the code and answer the questions.
	for i in range (10):
	for j in range (10):
	for k in range (5):
	print ()
	print(i)
	How many values of i will be printed?
	How many times each value of i will be printed?
	Modify the code to print j values from 1 to 5 & each value should be printed for 5 times.
		10

4	How precedence of operators is playing a role in python programming. Explain with proper examples.	**10**
5	Provide any five situations where python strings could be useful with proper examples.	**10**