

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)	10
	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.	
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

