CODE No.: 19BT10501 SVEC-19

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to JNTUA, Ananthapuramu)

I B.Tech II Semester (SVEC-19) Regular Examinations, December-2020

PROGRAMMING FOR PROBLEM SOLVING

[Electrical and Electronics Engineering, Electronics and Communication Engineering,
Electronics and Instrumentation Engineering]

Time: 3 hours				Max. Marks: 60		
1	-)	UNIT-I Describe having halfing blades of flowerhood with switchle	(Ml	т 1	C01	DO1
1.	a)	Describe basic building blocks of flowchart with suitable examples.	6 Marks	L1	C01	PO1
	b)	Discuss about type conversion with necessary examples. (OR)	6 Marks	L2	C01	PO1
2.	a)	Describe comparison, logical and bitwise operators in detail with examples.	6 Marks	L1	C02	PO1
	b)	Explain the basic data types available in Python with examples.	6 Marks	L2	C01	PO1
		UNIT-II				
3.	a) b)	Write Python code to check if a given year is a leap year or not. Write Python code to find the factorial of a number.	6 Marks 6 Marks	L1 L1	C02 C02	PO2 PO2
		(OR)	() ()		G0 2	DO 2
4.	a)	Write Python program to reverse a number and also find the Sum of digits in the reversed number.	6 Marks	L2	C02	PO2
	b)	Discuss about usage of pass and else statements used with loops.	6 Marks	L2	C01	PO1
		(UNIT-III)				
5.	a)	Write Python program to perform a search for a given key number in the list and report success or failure.	6 Marks	L2	C02	PO1
	b)	Write Python program to convert uppercase letters to lowercase and vice versa.	6 Marks	L2	C02	PO2
		(OR)				
6.	a)	Write about the following in Python: i) list ii) dictionary iii) tuple	6 Marks	L2	C02	PO3
	b)	Write Python program to sort numbers of any list of integers in ascending order.	6 Marks	L2	C02	PO2
		(UNIT-IV)				
7.	a)	What is need for function? Explain how to define and call function.	6 Marks	L2	CO1	PO1
	b)	How to write to and read from a file? Give suitable examples. (OR)	6 Marks	L2	CO2	PO2
8.	a)	Discuss about recursive functions with suitable examples.	6 Marks	L2	CO1	PO1
	b)	List out any three built in functions in date and time and explain.	6 Marks	L2	CO1	PO2

UNIT-V

9.	a)	How to read the data from .csv file?	6 Marks	L2	CO2	PO3
	b)	Write a python script to drop the missing data from data frame.	6 Marks	L2	CO2	PO2
		(OR)				
10	a)	Discuss about the creation of data frame with suitable example.	6 Marks	L3	CO2	PO2
	b)	Explain bar plot with a suitable programming example.	6 Marks	L3	CO2	PO3
		Hint: Given the number of students				
		enrolled - 23,17,35,29,12 courses offered - 'C', 'C++', 'Java',				
		'Python', 'PHP'.				

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