Code No: R2022021 (R20) (SET - 1

II B. Tech II Semester Regular/Supplementary Examinations, July - 2023 PYTHON PROGRAMMING

Tir	ne: í	3 hours Max. Mar	ks: 70
		Answer any FIVE Questions each Question from each unit All Questions carry Equal Marks	
		UNIT-I	
1	a)	How to declare and call functions in Python programs? Explain in detail.	[7M]
	b)	Explain various Data types in Python programming.	[7M]
		Or	
2	a)	Explain the syntax of various Conditional structures in Python programming.	[7M]
	b)	Write a Python program to demonstrate explicit type conversion.	[7M]
		UNIT-II	
	a)	Describe the various operations on text files.	[7M]
	b)	Write a Python program that interchanges the first and last characters of a given string.	[7M]
	`	Or	[<i>7</i>]
	a)	Describe the various string methods in Python.	[7M]
	b)	Explain How to write a String to a text file in Python with a sample program. UNIT-III	[7M]
	a)	List and explain various Python List Built-in methods.	[7M]
	b)	Explain the steps to create a Dictionary in Python.	[7M]
		Or	
	a)	Explain the problem solving with Top-Down Design.	[7M]
	b)	Write a program that applies recursion to compute the factorial of a number. UNIT-IV	[7M]
	a)	Describe How to make a Python class member variable hidden from outside the	[7M]
	b)	class. Discuss Polymorphism using an example program.	[7M]
		Or	
	a)	Explain file operations with a suitable program.	[7M]
	b)	Write a Python program that applies Seek function on files.	[7M]
		UNIT-V	
	a)	How to handle multiple exceptions with single except clause? Explain.	[7M]
	b)	Write a python program to illustrate the cases where a try block throws multiple Exceptions?	[7M]
		Or	
0	a)	Describe the four main elements of Scratch programming environment.	[7M]
	b)	Compare the GUI-based programs with Terminal-based programs.	[7M]
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II B. Tech II Semester Regular/Supplementary Examinations, July - 2023 PYTHON PROGRAMMING

Tin	ne: 3	3 hours Max. Max	rks: 70
		Answer any FIVE Questions each Question from each unit All Questions carry Equal Marks	
		UNIT-I	
1	a)	Explain few most commonly used built-in types in python programming.	[7M]
	b)	Demonstrate the use of break and continue keywords in looping structure.	[7M]
		\mathbf{Or}	
2	a)	Write a Python program to demonstrate How to access the characters in Python String.	[7M]
	b)	List and explain different operators in Python in the order of their precedence. UNIT-II	[7M]
3	a)	Explain the syntax of 'while' loop with an example.	[7M]
	b)	Write a Python function that prints all factors of a given number.	[7M]
		Or	
4	a)	Discuss the read-write operations of the text file in Python language.	[7M]
	b)	Write a Python program to get substring between characters in the input.	[7M]
		UNIT-III	
5	a)	Demonstrate the usage of Lambda function in Python.	[7M]
	b)	Write a Python function to print the even numbers from a given list.	[7M]
		\mathbf{Or}	
)	a)	Discuss any three standard modules in Python.	[7M]
	b)	Describe various ways to create Lists in Python.	[7M]
		UNIT-IV	
'	a)	Write a Python program that overloads + operator, to add two objects of a class.	[7M]
	b)	Write a program that reads a text file and changes the file by capitalizing each character of file.	[7M]
0	,	Or	[7] (1
8	a)	Explain the functions write and write lines with examples.	[7M]
	b)	Describe the steps to create Classes and Objects in Python.	[7M]
2	,	UNIT-V	[7] (1
9	a)	Discuss about built-in error types in Python.	[7M]
	b)	How to create two radio button sets (one for gender and another for Indian or not) on the same canvas? Explain	[7M]
		Or	
10	a)	Explain the importance of GUI based programs with an example.	[7M]
	b)	Write program to calculate your age in days. (days between Today and Date of Birth)	[7M]

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SET - 3

II B. Tech II Semester Regular/Supplementary Examinations, July - 2023 PYTHON PROGRAMMING

Time: 3 hours		3 hours Max. Ma	Max. Marks: 70	
		Answer any FIVE Questions each Question from each unit All Questions carry Equal Marks		
		UNIT-I		
1	a)	Explain various operators, built-in functions and standard library modules that deals with Python's numeric type.	[7M]	
	b)	Write a Python program to print all prime numbers.	[7M]	
		Or		
2	a)	List out various operators available in Python and explain their precedence and Associativity.	[7M]	
	b)	Demonstrate Nested decision structure with example program.	[7M]	
		UNIT-II		
3	a)	Explain the string operations length and slicing in detail with an example.	[7M]	
	b)	Write a Python program to perform sorting of given input strings.	[7M]	
		Or		
4	a)	Explain various string methods in Python with examples.	[7M]	
	b)	Discuss the sequence of steps to encrypt and decrypt Strings in Python.	[7M]	
		UNIT-III		
5	a)	What are Python modules? Explain in detail.	[7M]	
	b)	Write a Python program to extract characters from various text files and puts them into a List.	[7M]	
		Or		
6	a)	Explain the methods of list structure with examples.	[7M]	
	b)	Explain recursion with an example Python program.	[7M]	
		UNIT-IV		
7	a)	Explain different types of inheritance supported by Python.	[7M]	
	b)	Discuss the use of Destructor with a Python program.	[7M]	
		Or		
8	a)	Explain about the usage of issubclass() and isinstance() methods in Python.	[7M]	
	b)	Explain the Python'open()' built-in function.	[7M]	
		UNIT-V		
9	a)	How to create, raise and handle user defined exceptions in Python? Explain.	[7M]	
	b)	Write a Python program to handle division by zero exception.	[7M]	
		Or		
10	a)	Explain GUI-based program coding with an example.	[7M]	
-	b)	Write Python script that prints calendar of April 2023.	[7M]	
	-,	2	[]	

SET - 4

II B. Tech II Semester Regular/Supplementary Examinations, July - 2023 PYTHON PROGRAMMING

Ti	Time: 3 hours Max. Mark				
	Answer any FIVE Questions each Question from each unit All Questions carry Equal Marks				
		UNIT-I			
1	a)	Explain the key features of Python programming.	[7M]		
	b)	Explain different operators supported by Python.	[7M]		
		Or			
2	a)	Explain the syntax of Repetition structures in Python.	[7M]		
	b)	What a Python program to demonstrate Type conversions.	[7M]		
		UNIT-II			
3	a)	Explain the syntax of 'for' loop with an example.	[7M]		
	b)	Write a Python program to check whether a given number is Armstrong or not.	[7M]		
		Or			
4	a)	Explain Data Encryption in Python with an example.	[7M]		
	b)	Write Python program to demonstrate the usage of common Python String methods. UNIT-III	[7M]		
5	a)	Describe various ways to access the elements of a List in Python with example.	[7M]		
	b)	Write a Python program to access the elements of a Nested dictionary.	[7M]		
		Or			
6	a)	Discuss any four packages of Python language.	[7M]		
	b)	Explain the importance and implementation of Abstraction mechanism in Python. UNIT-IV	[7M]		
7	a)	How to implement method overriding in Python? Explain.	[7M]		
	b)	Explain Data modeling with an example.	[7M]		
		Or			
8	a)	Describe the steps for writing, reading and extracting values from config files.	[7M]		
	b)	How do you manipulate a file pointer in Python? Explain with a sample program.	[7M]		
		UNIT-V			
9	a)	Explain the difference between else block and finally block in exception handling.	[7M]		
	b)	Write a Python program that creates a GUI with a textbox, Ok button and Quit button. On clicking Ok, the text entered in textbox is to be printed in Python shell; on clicking Quit, the program should terminate.	[7M]		
1.0		Or	F1 43 53		
10		Describe the use of the four main elements of scratch- Programming palette, storage area, Sprites and Script.	[14M]		
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