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Fifth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Application Development using Python

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is variable in program? Explain rules for declaring variable name. Explain with example. (05 Marks)
 - b. Write types of operators in Python. Explain types of operators with examples. (07 Marks)
 - c. Draw flowchart for if-else-ladder in python. Explain execution of if-else-statement with example. (08 Marks)

OR

- 2 a. Write syntax for defining function in Python. Explain function definition and function call in Python with the help of example. (05 Marks)
 - b. What is scope of variable? Explain types of scopes of variable with examples. Explain use of 'global' keyword in Python. (07 Marks)
 - c. Draw flowchart for while control statement in Python. Explain execution of while control statement with example. (08 Marks)

Module-2

- a. Define list data type of Python. With example explain how positive and negative index can be used to access elements of list. (05 Marks)
 - b. What is tuple data type in Python? With example explain difference between tuple and list data types. (07 Marks)
 - c. Explain list data types index(), append(), insert() and remove() methods with examples.
 (08 Marks)

OR

- 4 a. How references are used in function call in Python. Explain copy module's copy() and deepcopy() functions with examples. (05 Marks)
 - b. Define dictionary data type in Python. With example explain keys(), values(), items() methods of dictionary data type. (07 Marks)
 - c. Explain following string methods with example: upper(), lower(), isupper(), islower(), startwith(), endswith(), join() and split().

 (08 Marks)

Module-3

- 5 a. Explain following file related functions with examples open(), close(), read(), readline(), readlines(). (05 Marks)
 - What is Shutil module? Explain how it is used for copying, moving and removing files and folders in Python.
 - c. With example explain different file opening modes in Python. (08 Marks)

		OR	
6	a.		(05 Marks)
U	b.	Define a regular expression to extract phone number. Using this regular expression	on write a
	υ.	Brother program to extract phone number.	(U/ Marks)
	0	Write a Python program to create zip file and to extract zip file. Explain these prog	rams with
	c.	appropriate comment lines in the code.	(08 Marks)
		appropriate comment mies in the court	
		Module-4	
_		What is inheritance? Write and explain Python code for inheritance.	(05 Marks)
7	a.	Explain object oriented features of Python. Explaininit() andstr methods	in Pythor
	b.		(07 Marks)
		class object.	(08 Marks)
	C.	Write and explain code for pure function and modifiers.	
		OR	
			(05 Marks)
8	a.	Explain type-based dispatch concept in Python with help of example. Define a time class. Write a Python program to set values to attributes of class and	
	b.	Define a time class. Write a Python program to set values to attributes of class and	(07 Marks)
		values of attributes of class.	
	C.	Explain following terms with examples: class, object, attribute, operator overloadi	(08 Marks
		Module-5	
		Write a Python program to download web content and save in file.	(05 Marks
9	a.	Write a Python program to greate and save excel file	(07 Marks
	b.	Write a Python program to create and save excel file. With example explain reader and writer objects of 'csv' module.	(08 Marks
	C.	With example explain reader and writer objects of est inoduce.	•
		OR	
		Explain how a 'run' object is used in paragraph object of the word file to read text	t.
10	a.	Explain how a run object is used in paragraph object of the word moto read some	(05 Marks
	1.	Explain pypdf2 module in Python. Write a Python code to encrypt pdf file and de	crypt a pd
	b.		(07 Marks
		file. List and explain 'Run' object text attributes. Explain each attribute with example.	
	C.	List and explain Kun object text attributes. Explain each attribute with example.	(