Semester B.E. Degree Examination, Dec.2023/Jan.2024

Python Application Programming

Max. Marks: 100

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

Module-1

Distinguish between:

Fine 3 hrs

i) Interpreter and complier

ii) Syntax, logic and Semantic errors. (08 Marks)

b. Define variable and keyword. List the keywords and rules followed to use variable names (06 Marks) with an example.

Write a note on:

i) Accepting input from keyboard

ii) Choosing mnemonic variable names.

(06 Marks)

Demonstrate the conditional, alternative, chained and nested execution statements with syntax, flowchart and example.

b. Develop a student grading program that takes score with value between 0.0 to, 1.0 as its parameter and returns a grade as string. If score is out of range/string, then print appropriate error message using try and except concept.

Score	Grade
>=0.9	A
>=0.8	В
>= 0.7	C
>=0.6	D)
< 0.6	F

(08 Marks)

Module-2

Explain definite and indefinite loops with suitable examples.

(05 Marks)

- b. Develop a program which repeatedly reads numbers until the user enters "done". Once "done" is entered, print total, count, average, maximum and minimum of numbers. Use try and except to print appropriate error message and skip to next number input. (10 Marks)
- List out the string handling methods with syntax and examples.

(05 Marks)

Describe the concept of parsing Strings and Format operators with suitable examples.

(04 Marks)

Demonstrate the open, read, write, search and close file methods with syntax and examples. (12 Marks)

Develop a program to create a string made of first, middle and last character of a user (04 Marks) specified string. (Ex: Input,: James, Output: Jms).

		Module-3	
5	a.	Illustrate 8 list handling methods in python.	(08 Marks)
	b.	Bring out the relationship between list and functions with suitable examples.	(06 Marks)
	c.	Development a program to turn every item of a list 1 into its square and place it	into list 2
		Print both lists.	(06 Marks)
		OR	
6	a.	Develop a program to read through a word file, find out the frequency of words i	n a file by
U	и.	ignoring the punctuation and alphabet case using dictionary. Print error if file does	s not exist
		ignoring the panetament	(08 Marks)
	b.	Describe tuple assignment with examples.	(06 Marks)
	c.		(06 Marks)
		Module-4	
7	a.	Define instantiation. Explain the shallow and deep copy concept with examples.	(08 Marks)
, /	а. b.	Demonstrate the concept of sameness between instances and use of instances as	
	υ.	and return values.	(12 Marks)
		and return values.	(
		OR	
			(05 Marks)
8	a.	Illustrate the concept of pure functions and modifiers.	(10 Marks)
	b.	Develop a program with initialization method and optional arguments.	(05 Marks)
	c.	Demonstrate operator overloading and polymorphism feature with sample code.	(US Marks)
		Module-5 W. 112 in visc heavy a Also draw a	oncentua
9	a.	Develop a program that represent World's simplest web browser. Also draw a	(07 Marks)
		diagram.	
	b.	Develop a program that can read any size file without using up all the memory in	(06 Marks)
	c.	Demonstrate the XML and JSON formats for data exchange across the web.	(07 Marks)
	С.	Demonstrate the Alvie and 3501 formats for data eventuage across the	X
		OR CMRIT LIBRARY	
10		Write a note on Google geo-coding API web service. BANGALORE - 560 037	(08 Marks)
10	a.	Demonstrate the use of CREATE, INSERT, SELECT, UPDATE and DEL	
	υ.	commands in python.	(12 Marks)
		commands in python.	(12 Interno)

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