15CS664

Sixth Semester B.E. Degree Examination, Aug./Sept. 2020 **Python Application Programming**

Max. Marks: 80

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

Module-1

Explain types of error with examples.

(04 Marks)

Explain various Names, Keywords and expressions with examples.

(06 Marks)

c. Write a python program using try and except, so that your program handles non-numeric input gracefully by printing a message and exiting the program the following shown two execution of the program

Enter Hours: 20 Enter Rate : nine

Error, please enter numeric input

Enter hours: forty

Error, please enter numeric input.

(06 Marks)

OR

- Explain conditional execution, Alternative execution chained conditionals and nested conditionals with examples. (08 Marks)
 - Explain break and continue statement with examples in python.

(04 Marks)

Explain with an example what are fruitful functions and void functions.

(04 Marks)

Module-2

Explain while and for loops with examples. a.

(04 Marks)

Write a python program to find the largest value from the given set of accepted values.

(06 Marks)

Discuss the string handling methods in python with examples.

(06 Marks)

OR

Write a python program to check whither a given string is palindrome or not.

(06 Marks) (04 Marks)

Explain with example the syntax of read (), write () methods for a file. Develop a python program for creating a copy an existing file.

(06 Marks)

Module-3

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Explain the difference between a list and a dictionary.

(04 Marks)

- Make a list of first ten letters of the alphabet then using the slice operation do the following:
 - i) Print the first three letters from the list
 - ii) Print any three letters from the middle
 - iii) Print the letters from 5th letters to the end of the list.

(04 Marks)

c. Discuss the lists handling functions in python with example.

(08 Marks)

(08 Marks)

		OR
6	a.	Differentiate between list and dictionary. (08 Marks)
Ü	b.	Define tuple, explain DSU pattern. Write a python code to determinate tuples by sorting a
		list of words from longest to shortest using loops. (04 Marks)
	C.	Explain the need of Regular expressions in python language. (04 Marks)
		Module-4
7	a.	Explain classes and attributes in python language with examples. (05 Marks)
	b.	Explain pure functions and modifiers with examples. (05 Marks)
	c.	Write a program that uses class to store the name and marks of students. Use list to store the
		marks in three subjects. (06 Marks)
		OR CMRIT LIBRARY EANGALORE - 560 037
8	a.	Explain initialization method with example. (04 Marks)
	b.	Write a class Rectangle that has attributes length and breadth and a method area which
		returns the area of the rectangle. (06 Marks)
	c.	What is operator overloading? Write phython code to overload "+" "-" and "* "operator
	7.0	by providing the methodsadd,subandmul (06 Marks)
		Module-5
9	a.	Write a python code for retrieving the romeo.txt file from the web and compute the
		frequency of each word in the file. (06 Marks)
	b.	Write a note on XML. (05 Marks)
	c.	Explain with a neat diagram of Service Oriented Architecture. (05 Marks)

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OR

10 a. Describe creation of database table using database cursor architecture. (08 Marks)
b. Write a python code for creating employee database, inserting records and selecting the

employees working in the company.