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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
THIRD SEMESTER MCA DEGREE EXAMINATION, DECEMBER 2017

Course Code: RLMCA369

Course Name: PYTHON PROGRAMMING

Max. Marks: 60   Duration: 3 Hours

PART A
Answer all questions, each carries 3 marks.   Marks

1	Differentiate Fundamental and Collection data types in python.	(3)
2	How do you create functions in python? "Recursive functions are computationally expensive" Justify the Statement.	(3)
3	What are special methods in python? How it is used in Class definition? Give example.	(3)
4	Differentiate tell () and seek () method in python.	(3)
5	Define Regex. List out any five uses.	(3)
6	How exceptions are handled in database? Distinguish 'Programming Error' from 'Operational Error'.	(3)
7	Define Web Client, web Server and web Services with relevant example.	(3)
8	Write short notes on matplotlib.	(3)

PART B
Answer six questions, one full question from each module and carries 6 marks.

Module I

9	a)	Explain in details Sequence Data types in Python.	(3)
	b)	Write a program to illustrate the difference between mutable and immutable data type.	(3)

OR

10	a)	What is the use of Control Statements?	(2)
	b)	How it is related to Control Structures?	(4)

Module II

11	a)	How modularity is achieved in Python?	(1)
	b)	What are the different argument passing mechanisms in python? Give Examples for each.	(5)

OR

12	a)	Explain the role of Exception Handling in Python.	(4)
	b)	Differentiate Assertion from Exception.	(2)

Module III

13	a)	Describe how Files are handled in Python.	(3)
	b)	Write a python program to open a file and copy the content to another file.	(3)

OR

14	"Method Overriding is different from Method Overloading" Justify the statement	(6)

with suitable Examples.

Module IV

15 Differentiate Regex Patterns and Regex Characters. Explain any 3 uses of regular   (6)
    expression with relevant example.

OR

16 Write a complete Program in python to do all operation on a Database Table and   (6)
    explain it.

Module V

17 a) How GUI Programming is done in Python.   (3)
    b) Describe any 3 widgets and its behaviour in detail.   (3)

OR

18 What is Python Web Client Tools, Explain in detail?   (6)

Module VI

19 a) Differentiate Django Projects and Django Apps.   (3)
    b) How to create a project in Django.   (3)

OR

20 "NumPy and SciPy are powerhouses of scientific Python" Comment on the   (6)
    Statement and Clarify your answer with a short example.

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