






This document is a part of Main Course File		Document No.: CFM – 8	
	SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED N. G. PATEL POLYTECHNIC		
	Computer Engineering Department		
FORMAT FOR ASSIGNMENTS			
Course Name (With Code): Scripting Language - Python (4330701)			
Semester / Year: 3rd Semester / 2nd year			
Assignment Number: 1			
Assignment CO Number: 4330701.A			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 3 Marks		
1	What is data type? list out the types of data type with example		
2	Define variable and mention rules for choosing name of variable		
3	Define Python and Give the Feature of Python		
4	Explain input and print method of python.		
Part – B	Questions carrying 4 Marks		
1	Give the difference between Scripting Language and Programming Language.		
2	Explain keyword, identifier and variable.		
3	Explain type casting with example.		
4	Write Application of python.		
Part – C	Questions carrying 7 Marks		
1	List out arithmetic operations. Build python code that performs three arithmetic operations		
2	Write a program to read your name, contact number, email, and birthdate and print those Details on the screen.		
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FORMAT FOR ASSIGNMENTS			
Course Name (With Code): Scripting Language - Python (4330701)			
Semester / Year: 3rd Semester / 2nd year			
Assignment Number: 2			
Assignment CO Number: 4330701.B			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 3 Marks		
1	Explain python selection statements with flowchart, syntax and example.		
2	Explain for loop with example.		
3	Explain while loop with a suitable example.		
4	Explain if-elif-else statement with suitable example.		
Part – B	Questions carrying 4 Marks		
1	List out different types of control statements in python and explain any one.		
2	Explain break, continue and pass statement with suitable example		
3	Create a Python program to display the following patterns using loop concept. 1 1 2 1 2 3 1 2 3 4 1 2 3 4 5		
4	Explain for loop and nested for loop with flowchart, syntax and example		
5	Explain switch case statement with flowchart, syntax and example.		
Part – C	Questions carrying 7 Marks		
1	Write a program that find whether a given year is a leap year or not.		
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FORMAT FOR ASSIGNMENTS		
Course Name (With Code): Scripting Language - Python (4330701)		
Semester / Year: 3rd Semester / 2nd year		
Assignment Number: 3		
Assignment CO Number: 4330701.C		
Sr. No.	Questions related to Course Outcomes	
Part – A	Questions carrying 2 Marks	
1	What are collection in python?	
2	What are python's dictionary?	
3	List the characteristics of list	
4	List characteristics of set	
5	List built in dictionary function	
Part – B	Questions carrying 3 Marks	
1	What are list and tuples? What is the key difference between the two?	
2	What is slicing in python?	
3	What are difference between list and tuple?	
4	How to create dictionary? Give example	
5	Enumerate the list and its method with example	
Part – C	Questions carrying 4 Marks	
1	Give a list of python list operation and explain with example	
2	Give a list of python list built in function and explain with example	
3	Explain Union of two sets with example	
4	List and explain any five built-in set method	
5	Explain basic tuple operation with example	
6	Differentiate between append() and extend() methods of list	
Part – D	Questions carrying 7 Marks	
1	Discuss the following list function a) len b) sum c)any() d) all()	
2	Explain following method with an example a) append b) extend c)insert d) index() e) sort()	
3	Write python code to multiply two matrices using nested loop and also perform transpose of the resultant matrix	
4	Check if the first and last number of a list is the same	
5	Given a two list of number ,write a program to create a new list such that the new list should contain odd number from the first list and even number from the second list	
6	Write a program to perform the below operations on the list: ▪ Read n numbers from a user ▪ Number of odd numbers. ▪ Number of even numbers.	
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FORMAT FOR ASSIGNMENTS			
Course Name (With Code): Scripting Language - Python (4330701)			
Semester / Year: 3 rd Semester /2 nd year			
Assignment Number: 4			
Assignment CO Number: 4330701.D			
Sr. No.	Questions related to Course Outcomes		
Part – A	Questions carrying 2 Marks		
1	What is function ?Mention the type off function and use		
2	Mention the type of argument in python		
3	What is mean by module in python?		
4	List some built in module in python		
5	What are python modules? Name some commonly used built in modules in python.		
6	What is PYTHONPATH?		
7	What is package in python?		
8	What is PIP?		
9	What are libraries in python? How do python libraries work		
Part – B	Questions carrying 3 Marks		
1	What are modules and packages in python?		
2	Define PIP		
3	Different between package and module		
4	What is random module		
5	What are format and actual argument		
6	Differentiate global and local variable		
7	How to install all the python libraries?		
Part – C	Questions carrying 4 Marks		
1	What is module? give three example of modules		
2	Explain with example how to create user defined module		
3	Explain the use of “import” statement		
4	Explain Intra-package reference		
5	Define function write its syntax		
6	Display float number with 2 decimal places using print()		
7	Explain math module of Python with suitable example.		
Part – D	Questions carrying 7 Marks		
1	Describe the syntax for the following function and explain with example Abs(),max(),divmod(),pow(),len()		

2	Write a python program using function to find the value of nPr and nCr without using inbuilt factorial() function
3	Write a function which receive a variable number of string as argument find unique characters in each string
4	Display three string “name”,”Is”,”james”as “name**Is**James”
5	Write a program to create a function show _employee() using the following condition 1. it should accept the employee’s name and salary and display both. 2.if the salary is missing in the function call then assign default value 9000 to salary
6	Create a user-defined module with simple functions for addition, subtraction, multiplication and division. Write a program to import the module and access functions defined in the module.
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Course Name (With Code): Scripting Language - Python (4330701)		
Semester / Year: 3 rd Semester /2 nd year		
Assignment Number: 5		
Assignment CO Number: 4330701.E		
Sr. No.	Questions related to Course Outcomes	
Part – A	Questions carrying 2 Marks	
1	What is a file in python?	
2	List types of file available in python	
3	What is file handle?	
4	What is file mode ? name the default file mode	
Part – B	Questions carrying 3 Marks	
1	What is file handling? list file handling operation	
2	Differentiate Text file and Binary file?	
3	List attribute of file _object	
4	What are different operation we can perform on file?	
5	What are different mode to open a file?	
6	Difference between ‘w’ and ‘a’ modes	
7	Difference between read and read line	
Part – C	Questions carrying 4 Marks	
1	Explain load method with example	
2	How would you confirm that 2 string have the same identity?	
3	How would you check if each word in string begins with a capital letter?	
4	How to find the index of the first occurrence of a substring in a string	

5	Difference between file modes r+ and w+ with respect to python
6	Write a python code to print even length word in a string
7	Explain usage of given string methods in Python. ▪ islower () ▪ isupper () ▪ isdigit () ▪ isalnum ()
Part – D	Questions carrying 7 Marks
1	Give list of file module
2	How to open and close file? Also give the syntax for same
3	Write a python code to check whether the string is symmetrical or palindrome
4	Write a reverse word in a given string in python
5	Write a code to find least frequent character in string
6	Write a code to read first 5 character from the file("data.txt")
7	Write a program in python to read first line from the file("data.txt")
8	Write a Python program that reads a text file and counts the occurrences of each alphabet in the file. The program should prompt the user to enter the filename.
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