

## JSS MAHAVIDYAPEETHA JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA DEPARTMENT OF INFORMATION TECHNOLOGY

CIA-I [Even Semester-(AY 2024-25)]

Course : B.Tech : IVrd

**Date** 

Roll No.

: 3-05-2025

Semester Subject

**Subject Code** 

: BCC 402

: Python Programming

Max. Marks

: 20

Time : 1 hrs=60 min

	COURSE OUTCOMES	BL/ KC
COI	Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements	K1,K2
CO2	Express proficiency in the handling of strings and functions	114 1113
CO3	Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets	K1,K2 K3
CO4	Identify the commonly used operations involving file systems and regular expressions	
CO5	Articulate the Object Oriented Programming concepts such as encapsulation, inheritance and polymorphism as used in python	K1,K2 K2,K3

	Section-A				
Attempt all the questions of this section (1 X					
Q. No.	Question	Marks	СО	BL/ KC	
a	Mention any two rules for writing python variables.	1			
b	Define any four of python's built-in data types.		CO1	1	
C		1	CO1	1	
	j=5		CO1		
	j=10				
	k=15	1		1	
	print(i = = k/j)				
d	of the output of the following statement in nython?		CO1		
	II num==20:		CUI		
	print('Apple')	1			
	print('Grapes') print('No Output')			1	
e	Outline any four features of the Python language.				
	Tour reactives of the Python language.	1	CO1	1	
ttomn	Section-B			1	
шешр	all the questions of this section		(3)	(3=9)	
	Compare and contrast differences between lists and tuples in Python.		(3)	13-9)	
2.					
	Explain the Python program lifecycle from source and the	3	CO1		
	key stages involved? What are the				
	Discuss all the Logical O				
	Discuss all the Logical Operators, Bitwise Operators and Arithmetic Operators in				
3.					
	OR	3	CO1	2	
	What are mutable and immutable objects in Python? What is the difference between them?				
	them? what is the difference between				
	Write a program to swap two values without using third variable				
4.					
	Write a program to display the square of a number having a unit digit as 5	3	CO1	3	
	y square of a number naving a unit digit as 5				

CO -Course Outcome generally refer to traits, knowledge, skill set that a student attains after completing the course

Bloom's Level (BL) - Bloom's taxonomy framework is planning and designing of assessment of student's learning. \*Knowledge Categories (KCs): F-Factual, C-Conceptual, P-Procedural, M-Metacognitive

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Section-C							
Attemp	t all the questions of this section		(6X	(1=6)			
	Write a program to test whether a number is divisible by 5 and 10 but not by 15.	6	CO1	3			
5.	OR						
	Write a program that prompts a user to enter two different numbers. Perform arithmetic operations based on choices using multi-way -if- elif-else statements.						

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