U	ISN									18CS34
		B. E. Deg	ree (A	uton	ıom	nous) Third Semeste	er End Exam	ination	(SEE)	
				P	VT	THON PROGRAM	MING			
Tim	o. 3 H	ourel		Ī		(Model Question Paper	(- 1)	ГМо	vimum	Marks: 100
Time: 3 Hours]						LIVIA	AIIIIUIII	Iviai KS. 100		
			İ			Instructions to studen				
					A	nswer FIVE FULL que	estions			
									00	RBT
Q.No.		Questions						Marks	CO	Cognitive Level
	a)	Describe	Describe Arithmetic Operators, Assignment Operators,						Bever	
1.		Comparison Operators, Logical Operators and Bitwise					10	CO1	L2	
		-	Operators in detail with examples.							
	b)	Explain the Identifiers, Keywords, Statements, Expressions, and Variables in Python programming language with						5	CO1	L2
			examples.					3		LZ
	c) Explain the basic data types av					types available in	Python with	n 5	CO1	L2
	()	examples.							COI	LZ
						OR				
	a)	Write Python Program to reverse a number and also find the					8	0.01	L3	
		Sum of digits in the reversed number. Prompt the user for						CO1		
2.	b)	input. Write Pythonic code to check if a given year is a leap year or					_			
		not.					6	CO1	L3	
	c)		ion pr	rogram to find the GCD of two positive		6	CO1	L3		
	- /	numbers.								
		Write Pyth	on cod	le to (dete	ermine whether the giv	en string is a			
	a)	Palindrome				•		CO2	L3	
	b)	Explain the use of join() and split() string methods with								
3.		examples. Describe why strings are immutable with an						6	CO2	L2
		example.								
	c)	Write Python program to count the total number of vowels,							CO2	L3
	<i>C)</i>	consonants	and blanks in a String.				8			
						OR				
	a)					add two matrices and	also find the	7	CO3	L3
	۵,	transpose o	f the r	esulta	ant r	matrix.		<i>'</i>		25

7

CO3

L3

Input five integers (+ve and -ve). Write Pythonic code to

find the sum of negative numbers, positive numbers and print

them. Also, find the average of all the numbers and numbers

4.

b)

above average.

					(Page 2 of
	c)	Write Pythonic code to find Mean, Variance and Standard Deviation for a list of numbers.	6	CO3	L3
	a)	Discuss the relation between tuples and lists, tuples and dictionaries in detail.	8	CO3	L2
5.	b)	Write Python program to swap two numbers without using Intermediate/Temporary variables. Prompt the user for input.	6	CO3	L3
	c)	Write a program that accepts a sentence and calculate the number of digits, uppercase and lowercase letters.	6	CO3	L3
		OR			
_	a)	Write Pythonic code to sort a sequence of names according to their alphabetical order without using sort() function.	8	CO3	L3
6.	b)	Discuss zip() function with an example.	6	CO3	L2
	c)	Illustrate the following Set methods with an example. a) intersection() b) union() c) issubset() d) difference() e) update() f) discard()	6	СОЗ	L2
	a)	Discuss the following special characters in detail. a) \d b) \w c) \b d) \{m, n\} e) \f)?	7	CO4	L2
7.	b)	Consider the file structure given below. Write Python program to delete all the files and subdirectories from the Extinct_Animals Directory. Cat Extinct_Animals Bonin_Thrush.rtf	Koala Gemur.	CO4	L3
	c)	Describe the difference between Python os and os.path modules. Also, discuss the following methods of os module a) chdir() b) rmdir() c) walk() d) listdir() e) getcwd()	7	CO4	L2
		OR			
	a)	Describe the characteristics of the CSV format.	7	CO4	L2
8.	b)	Write Python program to write the data given below to a CSV file. Category, Winner, Film, Year Best Picture, Doug Mitchell and George Miller, Mad Max: Fury Road, 2015 Visual Effects, Richard Stammers, X-Men: Days of Future Past, 2014 Best Picture, Martin Scorsese and Leonardo DiCaprio, The Wolf of Wall Street, 2013 Music (Original Song), Adele Adkins and Paul Epworth, Skyfall from Skyfall, 2012 Discuss the following methods of os. path module.	7	CO4	L3
	c)	a) isfile() b) abspath() c) relpath() d) dirname() e) splitext() f) getmtime()	6	CO4	L2
		1		 	
9.	a)	Write Python Program to Calculate Area and Perimeter of	10	CO5	L3

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		different Shapes using Polymorphism.					
	b)	Illustrate the diamond problem in Python programming language with an example.	10	CO5	L2		
OR							
	a)	Write Python Program to Demonstrate the Construction of Method Resolution Order in Python.	10	CO5	L3		
10.	b)	Consider a Rectangle Class and Create Two Rectangle Objects. Write Python program to Check Whether the Area of the First Rectangle is Greater than Second by Overloading > Operator.	10	CO5	L2		
