

## Model Question Paper-sem I/II with effect from 2022-23 (CBCS Scheme)

USN

--	--	--	--	--	--	--	--	--	--

### First/Second Semester B.E. Degree Examination Introduction to Python Programming

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module -1			Bloom's Taxonomy Level	Marks
Q.01	a	What is an arithmetic expression? . What is the output of this statement? <b>'hello world' + 100 + 'how are you'</b> explain the reason if the statement produces an error.	CO2-L3	6
	b	Discuss various methods of importing modules in Python programs. Which method is best?. Explain.	CO1 – L1	7
	c	What is the lambda function? Explain with an example of addition of two numbers.	CO2 – L1	7
OR				
Q.02	a	What is a flow control statement?. Discuss <b>if</b> and <b>if else</b> statements with flow chart.	CO1 - L1	7
	b	Write a python program to add <b>n</b> numbers accepted from the user.	CO2 – L3	7
	c	How can you prevent a python program from crashing? discuss different ways to avoid crashing.	CO2 – L2	6
Module-2				
Q. 03	a	Discuss list and dictionary data structure with example for each.	CO2 – L1	6
	b	write a python program to accept n numbers and store them in a list. Then print the list without ODD numbers in it.	CO2 – L2	6
	c	For a=['hello', 'how', [1,2,3], [[10,20,30]]] what is the output of following statement (i) print( a[ : : ] ) (ii) print(a[-3][0]) (iii) print(a[2][ : -1]) (iv) print(a[0][ : : -1])	CO2 – L3	8
OR				
Q.04	a	write a python program to read dictionary data and delete any given key entry in the dictionary.	CO3 – L23	7
	b	Explain different clipboard functions in python used in wiki markup	CO2 – L2	6
	c	Using string slicing operation write python program to reverse each word in a given string (eg: <b>input</b> : "hello how are you", <b>output</b> : "olleh woh era uoy")	CO2 – L3	8
Module-3				
Q. 05	a	Discuss different paths of file system.	CO3 – L2	6
	b	Explain how to read specific lines from a file?. illustrate with python program	CO5 – L2	6
	c	What is logging? how this would be used to debug the python program?	CO3 – L3	8
OR				
Q. 06	a	What is the use of ZIP? how to create a ZIP folder explain.	CO3 – L2	6

	b	write an algorithm for implement multi clipboard functionality	CO5 – L2	6
	c	Discuss how lists would be written in the file and read from the file?	CO3 – L3	8
<b>Module-4</b>				
Q. 07	a	Define the terms with example: (i) class (ii) objects (iii) instance variables	CO3 – L1	6
	b	create a Time class with hour, min and sec as attributes. Demonstrate how two Time objects would be added.	CO3 – L3	8
	c	Discuss <code>__str__()</code> and <code>__init__()</code> methods used in class definition.	CO3 – L2	6
OR				
Q. 08	a	What is Encapsulation? Discuss with an example in which access specifiers are used in class definition.	CO3 – L2	4
	b	What is a class diagram? Create empty class and corresponding class diagram for following statements (i) class A derives from class B and Class C (ii) Class D derived from Class A defined in statement (i)	CO3 – L3	8
	c	discuss polymorphism and demonstrate with and python program.	CO3 – L2	8
<b>Module-5</b>				
Q. 09	a	write python program to read cell 2C from sheet 2 of workbook	CO4 – L2	6
	b	explain how pdf pages would created in a pdf document with example.	CO4 – L2	6
	c	What is JSON? discuss with example. Compare it with dictionary	CO4 – L3	8
OR				
Q. 10	a	compare and contrast Excel and CSV files.	CO4 – L2	6
	b	Demonstrate how a Class would be converted into JSON object with an example.	CO4 – L3	8
	c	Explain how a page from different PDFs files would be merged into a new PDF file?	CO4 – L3	6