Course Code: 18CS0517



SIDDARTHA INSTITUTE OF SCIENCE AND TECHNOLOGY:: PUTTUR (AUTONOMOUS)

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OUESTION BANK (DESCRIPTIVE)

Subject with Code : PYTHON PROGRAMMING (18CS0517) Course & Branch: B.Tech (OE)

Year &Sem: III-B.Tech -II Sem **Regulation:** R18

(Common to ECE, EEE, Mech, Civil)

UNIT -I

<u> Iarks Questions</u>		
What is the index in Python?	[L1,CO1]	[2M]
Define REPL.	[L1,CO1]	[2M]
Why we go for negative index representation?	[L1,CO1]	[2M]
How to take input from user in python?	[L1,CO1]	[2M]
What does the len() function do in Python?	[L1,CO2]	[2M]
•	[L1,CO2]	[2M]
	[L1,CO2]	[2M]
What is isalpha() in Python?	[L1,CO2]	[2M]
Differentiate list and tuple.	[L2,CO2]	[2M]
How to copy one list to another?	[L1,CO2]	[2M]
Marks Questions		
Illustrate the input and output statements with example.	[L4,CO1]	[10M]
a)Write history of Python.	[L3,CO1]	[4M]
b)List features and applications of Python.	[L1,CO1]	[6M]
a) Explain about the Single-Valued data types in python.	[L2,CO2]	[5M]
b) What is Indentation? Explain with example.	[L1.CO1]	[5M]
		[4M]
, .		[6M]
, , , , , , , , , , , , , , , , , , ,		[10M]
•		[10M]
Describe the list and its methods with example.		[10M]
a) What is dictionary? Explain the methods available in dictionary.	[L1,CO2]	[6M]
· · · · · · · · · · · · · · · · · · ·	[L3,CO1]	[4M]
a) Define Variable and mention rules for choosing names of Variable.	[L1,CO1]	[5M]
	[L2,CO2]	[5M]
	[L6,CO1]	[10M]
ii)Odd or even		
	Define REPL. Why we go for negative index representation? How to take input from user in python? What does the len() function do in Python? How do you check the presence of a key in a dictionary? How to convert a string to lowercase? What is isalpha() in Python? Differentiate list and tuple. How to copy one list to another? Marks Questions Illustrate the input and output statements with example. a) Write history of Python. b) List features and applications of Python. a) Explain about the Single-Valued data types in python. b) What is Indentation? Explain with example. a) Explain variable assignment with suitable example. b) What is data type? List out the data types with example. Elucidate the string and its methods with example. Discriminate about the Multi-Valued Data types with example. Describe the list and its methods with example. a) What is dictionary? Explain the methods available in dictionary. b) Implement the python program to calculate total and average marks based on input. a) Define Variable and mention rules for choosing names of Variable. b) What is Set? Explain set Operations. Create python program for the following i)Prime number or not	What is the index in Python? Define REPL. [L1,CO1] Define REPL. [L1,CO1] Why we go for negative index representation? How to take input from user in python? What does the len() function do in Python? [L1,CO2] How do you check the presence of a key in a dictionary? How to convert a string to lowercase? [L1,CO2] What is isalpha() in Python? [L1,CO2] What is isalpha() in Python? [L1,CO2] How to copy one list to another? [L2,CO2] How to copy one list to another? [L3,CO2] Warks Questions Illustrate the input and output statements with example. [L4,CO1] a) Write history of Python. [L3,CO1] b) List features and applications of Python. [L1,CO1] a) Explain about the Single-Valued data types in python. [L2,CO2] b) What is Indentation? Explain with example. [L1,CO1] a) Explain variable assignment with suitable example. [L2,CO1] b) What is data type? List out the data types with example. [L2,CO2] Discriminate about the Multi-Valued Data types with example. [L2,CO2] Discriminate about the Multi-Valued Data types with example. [L2,CO2] Discriminate about the Multi-Valued Data types with example. [L2,CO2] Discriminate about the Multi-Valued Data types with example. [L2,CO2] b) What is dictionary? Explain the methods available in dictionary. b) Inplement the python program to calculate total and average marks based on input. a) Define Variable and mention rules for choosing names of Variable. b) What is Set? Explain set Operations. [L2,CO2] Create python program for the following i) Prime number or not

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UNIT -II

2 M	larks Questions		
1	Which operator is used to check both are identical?	[L1,CO1]	[2M]
2	How to check the type of the variable in python?	[L1,CO1]	[2M]
3	What are the special operators in python?	[L1,CO1]	[2M]
4	Evaluate the expression $(2*5/5)-4/2*1$.	[L1,CO1]	[2M]
5	When should you use the "break" in Python?	[L2,CO1]	[2M]
6	List the arithmetic operators that python supports.	[L1,CO2]	[2M]
7	Which operator is used to check value/variable in the sequence?	[L1,CO2]	[2M]
8	What does the continue do in Python?	[L1,CO2]	[2M]
9	Write syntax of for loop with example.	[L3,CO2]	[2M]
10	What is a built-in function that Python uses to iterate over a number sequence?	[L1,CO2]	[2M]
<u>10 l</u>	Marks Questions		
1	Classify various types of operators in Python and write any 4 types of	[L4,CO1]	[10M]
2	operators	[[5 (002]	[10] [1
2	Summarize Control flow structures in python.	[L5,CO2]	[10M]
3	a) Explain Arithmetic operations (Addition, Subtraction, Multiplication, and	[L2,CO1]	[5M]
	Division) on integers. Input the two integer values and operator for		
	performing arithmetic operation through keyboard.	[] 2 ((0.2)	[6] (1)
	b) What are the different loop control statements available in Python? Explain	[L2,CO2]	[5M]
4	with suitable examples. a) Create a Python program to display Fibonacci series.	[L6,CO1]	[4M]
7	b) Explain break and continue statement with the help of for loop with an	[L0,CO1]	[4M]
	example.	[L2,CO2]	[OIVI]
5	Examine the syntax of the following statements with example	[L3,CO2]	
	i) for loop	[20,000]	[3M]
	ii) while loop		[3M]
	iii) if-elif-else		[4M]
6	a) Write a Python program to find maximum among three numbers.	[L3,CO1]	[4M]
	b) Describe Python jump statements with examples.	[L2,CO2]	[6M]
7	a) Explain the Logical and Bitwise operator with example.	[L2,CO2]	[5M]
,	b) Develop a Python program to Swapping of two numbers with and without	[L3,CO1]	[5M]
	using temporary variable.	[,]	[]
8	a) What is an expression in Python? Explain order of evaluation with example.	[L1,CO1]	[6M]
	b) Create a python program to generate the multiplication table based on user	[L6,CO1]	[4M]
	input.	L - 7 J	. ,
9	a) Write a Python program to find sum of natural numbers.	[L3,CO2]	[5M]
	b)Discuss the assignment and bitwise operators supported in Python.	[L2,CO2]	[5M]
10	a) Discuss the Membership and Identity operators with example.	[L2,CO2]	[5M]
	b) Create a Python program to print prime number series up to N.	[L6,CO2]	[5M]
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I	IN	П	T	-III

UNIT –III						
2 Marks Questions						
1	How do we write a function in Python?	[L1,CO3]	[2M]			
2	What is the return keyword used for in Python?	[L1,CO3]	[2M]			
3	Define recursive function.	[L1,CO3]	[2M]			
4	What does the "self" keyword do?	[L1,CO4]	[2M]			
5	Define Inheritance in Python programming.	[L1,CO4]	[2M]			
6	How many basic types of functions are available in Python?	[L1,CO3]	[2M]			
7	How to create a class in python?	[L1,CO4]	[2M]			
8	What is a constructor and how does it used in python?	[L1,CO4]	[2M]			
9	Do you think Oops concept is available in Python?	[L1,CO4]	[2M]			
10	Define Polymorphism.	[L1,CO4]	[2M]			
	Marks Questions					
1	a) Express function to do all arithmetic operations.	[L3,CO3]	[4M]			
	b) What are formal and actual arguments explain with example?	[L1,CO2]	[6M]			
2	a)Create recursive function to find factorial of a number	[L6,CO3]	[5M]			
	b)Illustrate lambda function with example.	[L4,CO3]	[5M]			
3	a) Discuss about key word arguments with example.	[L2,CO3]	[5M]			
	b)Distinguish global and local variables with example.	[L4,CO3]	[5M]			
4	a) Define Variable-length arguments? Explain with example.	[L1,CO3]	[5M]			
	b) Narrate scope of a variable in a function.	[L3,CO3]	[5M]			
5	a) Illustrate about default arguments with example.	[L4,CO3]	[5M]			
	b) Write a function to return right most digit in the entered number	[L3,CO3]	[5M]			
6	a) Define class and object with example code.	[L1,CO4]	[5M]			
	b) Write about self-variable with code.	[L3,CO4]	[5M]			
7	What is inheritance? Illustrate types of inheritance with python code.	[L2,CO4]	[10M]			
8	a) Compare method overloading and overriding.	[L2,CO4]	[6M]			
	b) Describe about class constructor (_init_()) with example.	[L3,CO4]	[4M]			
9	Illustrate polymorphism with example.	[L4,CO4]	[10M]			
10	Summarize the ways of passing function arguments with example.	[L5,CO3]	[10M]			

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UNIT –IV

2 N	Iarks Questions		
1	Define module in python.	[L1,CO3]	[2M]
2	What are Errors and Exceptions in Python programs?	[L1,CO4]	[2M]
3	List few Built-in Exceptions in Python.	[L1,CO4]	[2M]
4	What is import and fromimport statement?	[L1,CO4]	[2M]
5	Define is searching.	[L1,CO4]	[2M]
6	What is an exception? Give an example.	[L1,CO4]	[2M]
7	How do you handle exceptions with Try/Except/Finally in Python?	[L1,CO4]	[2M]
8	Name the optional statements possible inside a try-except block in Python.	[L1,CO4]	[2M]
9	What is Raise in Python?	[L1,CO4]	[2M]
10	List the type of files that could be handled using python file handling.	[L1,CO4]	[2M]
	Marks Questions		
1	What is module? How to create a module explain with an example.	[L3,CO3]	[10M]
2	a) Describe about namespacing.	[L2,CO3]	[5M]
	b Explain about the import statement in modules.	[L2,CO6]	[5M]
3	a) What are packages? Give an example of package creation in Python.	[L3,CO6]	[5M]
	b) Create code to illustrate try and except statements in Python.	[L6,CO4]	[5M]
4	Summarize the different types of Exceptions in Python.	[L5,CO4]	[10M]
5	a)What is an Raising Exception with an example?	[L1,CO4]	[5M]
	b) Elaborate User defined Exception with an example.	[L1,CO4]	[5M]
6	Describe about Handling Exceptions in detail with examples.	[L2,CO4]	[10M]
7	a) Illustrate searching with example program.	[L4,CO5]	[5M]
	b) Illustrate matching with example program.	[L4,CO5]	[5M]
8	Define PIP. Discuss package installation via pip.	[L2,CO6]	[10M]
9	a) Explain about the from import statement in modules.	[L2,CO6]	[5M]
	b) Illustrate about scoping.	[L4,CO4]	[5M]
10	a) List some few common Exception types and explain when they occur.	[L1,CO4]	[5M]
	b) Write a small code using try-except-else-finally statement in python.	[L3,CO4]	[5M]

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	UNIT –V		
2 N	Tarks Questions		
1	What are Python Generators?	[L1,CO4]	[2M]
2	Compare Iterator and Iterable.	[L2,CO6]	[2M]
3	Difference between read and readline.	[L2,CO4]	[2M]
4	What does the yield keyword do in Python?	[L1,CO4]	[2M]
5	How to open a text file and display its contents?	[L1,CO2]	[2M]
6	What does file handling mean?	[L1,CO2]	[2M]
7	How to read two characters from a file in Python?	[L1,CO4]	[2M]
8	What is the first argument of command line in python?	[L1,CO4]	[2M]
9	How to get the current year in Python?	[L1,CO4]	[2M]
10	Define Turtle in Python.	[L1,CO4]	[2M]
10 1	Marks Questions		
1	Describe in detail about Iterators and Generators with an example.	[L2,CO6]	[10M]
2	a) Discuss about maps in python.	[L3,CO6]	[5M]
_	b) Discussabout filters in python.	[L3,CO6]	[5M]
3	Explain in detail about Python Files, its types, functions and operations that	_	[5M]
5	can be performed on files with examples.	[L2,CO2]	
4	Demonstrate about the GUI programming in Python	[L3,CO6]	[5+5M]
•	a) Triangle	[25,000]	
	b) Rectangle		
5	a) Illustrate about Python Runtime Services.	[L4,CO4]	[5M]
J	b)Illustrate about Command line arguments.	[L4,CO4]	[5M]
6	Express about Mathematics functions in python.	[L6,CO5]	[10M]
7	a) Explain about the reading files in python.	[L3,CO2]	[6M]
•	b) Explain about Data Compression.	[L3,CO2]	[4M]
8	a) What is Data Management and Object Persistence?.	[L1,CO5]	[6M]
-	1) D. C. 1 : D.d. : T.d.	[[4,004]	[4] 4]

[L4,CO4]

[L4,CO6]

[L3,CO5]

[L3,CO2]

[4M]

[10M]

[6M]

[4M]

b) Draw Circle in Python using Turtle

10 a) Write about Dates and Times.

Explain about Functional Programming.

b) Write about the writing files in python.