



## **BRAINWARE UNIVERSITY**

Brainware University
398, Ramkrishnapur Road, Barasat
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## Term End Examination 2024-2025 Programme – B.Tech.(CSE)-2023 Course Name – Introduction to Python Programming Course Code - ESCG303 ( Semester III )

Full Manut	Time: 2:30 Hours
Full Marks: 60	air answers in their
[The figure in the margin indicates full marks. Candidates are required to give th	ieir answers in their
own words as far as practicable.]	

Group-A

(Multiple Choice Type Question)

1 x 15=15

- (i) Identify the output of following code snippet a=[1,2,3,4,5] print(a[3:0:-1])

  a) syntax error

  b) [4,3,2]

  c) [4,3]

  d) [4,3,2,1]
- (ii) Identify the output of the following code snippet init\_tuple\_a = 'a', 'b' init\_tuple\_b = ('a', 'b') print (init\_tuple\_a == init\_tuple\_b)
  - a) 0

b) 1

c) False

- d) True
- (iii) Observe and predict what would the following code print? Mali = 5 print("Mali" + " is " + str(Mali))
  - a) Mali is Mali

b) Mali is 5

c) 5 is Mali

- d) 5 is 5
- (iv) Observe and predict the correct output of the following String operations strOne = str("pynative") strTwo = "pynative" print(strOne == strTwo) print(strOne is strTwo)
  - a) False False

b) True True

c) True False

- d) False True
- (v) Identify output of the following Python code from the options given: len("Python")
  - a) 7

b) 6

c) 5

- d) "Python"
- (vi) Examine the purpose of the finally clause in Python exception handling.
  - a) To define a block of code that might raise an exception

1. Choose the correct alternative from the following:

- b) To specify the type of exception to catch
- c) To execute code regardless of whether an exception occurs
- d) To raise a custom exception
- (vii) Select the process of raising a custom exception in Python.
  - a) Using the raise keyword followed by the exception name
- b) Using the try-except block

Village the finally clause	d) Using the if-else statement	
<ul> <li>c) Using the finally clause</li> <li>(viii) Identify the purpose of the raise statement in</li> </ul>	python.	
avcention.	-,	
c) To re-raise a previously caught exception	<ul> <li>d) To catch multiple exceptions in except clause</li> </ul>	r a single
	unction. Choose the correct one.	
a) It outputs a value to the console but does not end the function's execution.	<ul> <li>b) It defines default values for fur parameters.</li> </ul>	
c) It imports external libraries into the	d) It provides a value to the caller	of the
function.	function and ends the function	's execution
<ul> <li>(x) Define what happens if you do not provide re- the correct one.</li> </ul>	quired arguments to a function. Choo	ose
a) The function will ignore missing arguments and continue execution.	<ul> <li>b) The function will use default va missing arguments.</li> </ul>	lues for
c) A TypeError is raised indicating that	d) The function will automatically	create no
required arguments are missing.	variables for the missing argume	create new
(xi) Choose the correct option from the following	is responsible for initializing the object	ents.
of its class	s responsible for initialising the object	.13
a) Constructor	b) Destructor	
c) Iterator	d) None of the mention	
(xii) Choose the correct option from the following i	s most accurate for the given	
declaration: x= Square()	s most decarate for the given	
a) x contains an int value	b) x contains an object of square ty	no.
c) An int value can be assigned to x	d) x contains a reference to a square	e object
(xiii) Select the correct function that can help us to	find the version of Python that we are	e object
currently working on	·	
a) sys.version(1)	b) sys.version(0)	
c) sys.version()	d) sys.version	
(xiv) Predict the correct answer: pip stands for in pythonic product the correct answer:	thon	
a) Pip Installs Python	b) Pip Installs Packages	
c) Preferred Installer Program	d) All of the mentioned	
(xv) Identify the mode is used to open a file for read	ling in Python?	
a) 'w'	b) 'r'	
c) 'a'	d) 'x'	
Group (Shart Assault		
(Short Answer Ty	pe Questions)	3 x 5=15
2. Describe exception handling in Python with code si	ninnet	(2)
3. Illustrate a Python program to calculate the factoria		(3)
handling to handle negative input values.	aror a number also ose exception	(3)
4. Describe the functions provided by the math modu	ile in Python.	(3)
5. Define the random module and give an example of		(3)
6. Compare and contrast input and output operations in Python.		(3)
OR		
Illustrate a python program to read line by line fron	n a given files file1 & file2 and write in	nto (3)
file3.		
Group		
(Long Answer Typ	e Questions)	5 x 6=30
<ol> <li>Discuss the role of the get() method in Python dict</li> </ol>	ionaries.	(5)

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	'myfile' does not exist on the dield a spen ('myfile', 'r') Now explain what happens if,	(5)
	mode operations in python with examples	(5)
12	Describe about pass statement in python.	1 (5) (5)
11	Describe about passers to the constructor method 13	<i>t</i> e1
10	number.  Final an example function that calculates the factorial of	a (5)
9.	Define a Python function and create an example function that calculates the factorial of Design passing arguments to the control of the calculates the factorial of the calculates the factorial of the calculates the factorial of the calculates the	(5)
ъ.	Alidiyze the method of	