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BRAINWARE UNIVERSITY

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Term End Examination 2024-2025
Programme – M.Tech.(RA)-2024
Se Name – Python Programming for Aut

Course Name – Python Programming for Automation
Course Code - MEC20303A
(Semester II)

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

Group-A

(Multiple Choice Type Question)

1 x 15=15

(i) Select the correct option among the following that is a valid variable name in Python:
a) 2names
b) myVar
c) global
d) lambda

(ii) Identify the output of the following Python code: print(3 + 5 * 2)

a) 13 b) 16 c) 11 d) 10

Choose the correct alternative from the following:

(iii) Estimate the definition for packages in Python?

a) A set of main modules b) A folder of python modules

c) A number of files containing Python definitions and statements d) A set of programs making use of Python modules

(iv) Examine which one of the following is not a keyword in Python language?

a) pass b) loop

c) assert d) nonlocal

(v) Determine the module in the python standard library parses options received from the command line?

a) getarg b) getopt

c) main d) os

(vi) Analyze the arithmetic operators cannot be used with strings in Python?

a) * b) c) All of the mentioned

(vii) Estimate which Python commands used to add a new element to a list?

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	Kolkata, West Bengal-700125	b) list1.addLast(5)			
	a) list1.addEnu(5)	d) list1.add(5)			
(viii)	c) list1.append(5) i) Evaluate what will be the output of the following Python expression? round(4.576)				
(*****/	a) 4	b) 4.6			
	\ -	d) 4.5			
(ix)	Compute which of the following is correctly evalu	ated for this function? pow(x,y,z)			
	a) (x**y) / z	b) (x / y) * Z			
	c) (x**y) % z	d) (x/y)/z			
(x)	Predict character which is used for commenting in				
	a) #	b) !			
	c) @	d) *			
(XI)	Evaluate what gets printed? Nums=set([1,1,2,3,3,				
	a) 2	b) 4 d) 7			
(vii)	c) 5 xii) Identify the option that is NOT a valid Python data type				
(111)		b) dictionary			
	a) list c) tuple	d) struct			
(xiii)	In Python, Determine which of the following is the inheritance?				
	a) Using the super() function in the child class	b) Listing multiple parent classes in the child class definition			
	c) Using the inherit() method	d) Defining a separate interface for each parent class			
(xiv)	Compute the output of the following code	Class			
	def func(a, b=[]): b.append(a) return b				
	<pre>print(func(1)) print(func(2)) print(func(3))</pre>				
	a) [1] [2] [3] c) [1] [2] [3] []	b) [1] [1, 2] [1, 2, 3] d) SyntaxError			
(xv)	Determine the output of the following code $x = [1, 2, 3]$ $y = x$ $y += [4, 5]$	o, c, maxemen			
	print(x)				
	a) [1, 2, 3] c) TypeError	b) [1, 2, 3, 4, 5] d) [4, 5]			
	Group-B				

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Compile a Python script to automatically fetch data from a webpage and save it to a local file. (3)

3. Describe the features of python. Define python interpreter.4. Explain the use of the if statement in Python.	(3)
 Compute a Python program to count the number of alphabets and number of digits in the string 'Nagpur-440010'. 	(3)
6. Estimate how exception handling done in Python? Provide an example.	(3)
OR Evaluate what is the difference between is and == in Python.	(3)
Group-C (Long Answer Type Questions)	5 x 6=30
7. Express a Python program to implement the concept of inheritance.	(5)
8. Explain how can you automate sending emails in Python.	(5)
9. Explain the method overriding in Python with an example.10. List and explain various object-oriented programming concepts available in Python.	(5) (5)
11. Determine the resolution of an image file and then print the resolution value using a function in Python.	n (5)
12. Analyze Indexing and Slicing operation for the list with example in python.	(5)
OR Analyze Inheritance in python with example.	(5)