



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme - B.Tech.(RA)-2022 Course Name – Python Programming Course Code - ESCR401 (Semester IV)

Full Marks: 60 Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

abstract level

c) The program will have a more elegant

design and will be easier to maintain and

Choose the correct alternative from the following: (i) Which Python commands used to add a new element to a list? a) list1.addEnd(5) b) list1.addLast(5) c) list1.append(5) d) list1.add(5) (ii) Tell the keyword which is used to create an anonymous function? a) Def b) lambda c) func d) pi (iii) Illustrate which of the following is not a valid attribute of a file object (fp)? a) fp.name b) fp.closed c) fp.mode d) fp.size (iv) Express how do you rename a file? a) fp.name = 'new_name.txt' b) os.rename(existing_name, new_name) c) os.rename(fp, new_name) d) os.set_name(existing_name, new_name) (v) Describe what is used to create an object. a) class b) constructor c) User-defined functions d) In-built functions (vi) Describe for what is setattr() used for? a) To access the attribute of the object b) To set an attribute c) To check if an attribute exists or not d) To delete an attribute (vii) Describe what is the use of the return statement? a) exit a function b) null value d) none c) initiate a function (viii) Choose the biggest reason for the use of polymorphism? a) It allows the programmer to think at a more

There is less program code to write

Program code takes up less space

<i>(</i> :	update	of file opening.		
(ix)	(ix) Write the difference between r+ and w+ modes of file opening. a) b) in r+ the pointer is initially placed at the			
	a) no difference	beginning of the file and the pointer the end for w+	is at	
	 c) in w+ the pointer is initially placed at the beginning of the file and the pointer is at the end for r+ 	d) depends on the operating system		
(x)	x) Choose which of the following is not a type of inheritance?			
(xi)	a) Double-levelc) Single-levelWrite the advantages of using function.	b) Multi-level d) Multiple		
 ,	a) Reduce duplication of code	b) Clarity of code		
(xii)	c) Reuse code Calculate the output of the following code. Defs.	d) All		
	a) 4	b) 16		
	c) 8	d) none		
	Determine which of the following is responsible	•		
	a) Constructor	b) Destructor		
	c) Iterator	d) None of the above		
(xiv)	Explain what will be the output of this code? any	/([5>8, 6>3, 3>1])		
	a) not correct	b) correct		
	c) Invalid code	d) None of these		
(xv)	Estimate the output of the following Python code.			
	class A:			
	<pre>definit(self): selfx =1 class B(A): def display(self): print(selfx) def main(): obj = B() obj.display() main()</pre>			
;	a) 1	b) 0		
	c) _	d)		
	Error, invalid syntax for object declaration	Error, privet class member can't be accessed in a subclass		
	Group	-B		
	(Short Answer Typ	να Ο «Δ" \	3 x 5=15	
	,	<u> </u>	y y 2-12	
 Describe the significance of indentation in Python. Apply the len() function to determine the length of a tuple in Python. Write the definition of a dictionary in Python. Discuss whether is their any difference in the values returned by the functions dir (), vars() and keys(). If yes, write a program to obtain that difference, also mention the output. 			(3) (3) (3) (3)	
or sustiny the purpose of the append() method with list.			(3)	
OR Justify the purpose of the count() method with tuplor				
			(3)	

Group-C (Long Answer Type Questions)

5 x 6=30

7.	Describe the relationship between a class and object? Write a program which shows how to define a class in python. 3+2	(5)
8.	Write a Python program to check whether a number is prime or not without using function.	(5)
9.	Find the resolution of an image file and then print the resolution value using a function in Python.	(5)
11.	Describe following string functions with syntax: title(), strip(), islower() and isupper(). Explain usage of continue, break, and pass keyword in python. Write a Python program to verify whether a number is automorphic or not. Write the output also.	(5) (5) (5)
	OR	
	Write a Python program on: "A school displays a notice on the school notice board regarding admission in class XI for choosing streams according to the marks obtained in English, Maths and Science in class X Council Examination."	(5)