



BRAINWARE UNIVERSITY

Term End Examination 2022 Programme – BCA-2018/BCA-2022 Course Name – Problem Solving using Computer Course Code - BCSE010602/BCAC101 (Semester I)

Full Marks : 60

[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

1. Choose the correct alternative from the following:

(i)	Which of the following structures are used in computer programming?			
	a) Sequential	b) decision		
	c) Timesharing	d) None of these		
(ii)	Indentation in a program is			
	a) Improves its reliability and understanding.	b) Is compulsory.		
	c) Both a & b	d) None of these		
(iii)	What is Algorithm?			
	a) Step by step execution of the program.	b) Object file.		
	c) Executable file.	d) Source file.		
(iv)	Which of the following is an invalid variable?			
	a) my_string_1	b) 1st_string		
	c) Foo	d) None of These		
(v)	What is the answer to this expression, 22 % 3 is?			
	a) 7	b) 1		
	c) 0	d) 5		
(vi)	Which of the following cannot be a variable?			
	a) _int_	b) in		
	c) it	d) on		
(vii)	If a='cpp', b='buzz' then which of the following or	peration would show 'cppbuzz' as		
	output?			
	a) a+b	b) a+"+b		
	c) a+""+b	d) All of these		
(viii) What will be the output of the following Python code? $i = 1$ while True: if $i\%3 == 0$:				
	break print(i) i = 1			

	a) 12 c) Error	b) 123 d) None of these	
(ix)	What will be the output of the following code?		
	a) 12	b) 12	
	c) Error	d) None of the above	
(x)	What will be the output of the following Python a.extend([45,67]) print(a)	code? a=[13,56,17] a.append([87])	
	a) [13, 56, 17, [87], 45, 67]	b) [13, 56, 17, 87, 45, 67]	
(xi)	c) [13, 56, 17, 87, [45, 67]] Is the following Python code valid? >>> a=(1,2,	d) [13, 56, 17, [87], [45, 67]] 3,4) >>> del a	
	a) No because tuple is immutable	b) Yes, first element in the tuple is del	eted
(vii)	c) Yes, the entire tuple is deleted What will be the output of the following Python	d) No, invalid syntax for del method	
(XII)	{name2}".format(name1='foo', name2='bin'))	code: print(rieno (namer) and	
	a) Hello foo and bin	b) Hello {name1} and {name2}	
,	c) Error	d) Hello and	
(XIII) The format function, when applied on a string re		
	a) list	b) bool	
/viv	c) int) Which module in Python supports regular expre	d) str	
(XIV			
	a) Re c) pyregex	b) regexd) none of the these	
(xv)	What is Instantiation in terms of OOP terminolog	•	
()	a) Deleting an instance of class	b) Modifying an instance of class	
	c) Copying an instance of class	d) Creating an instance of class	
	Grou	ір-В	
	(Short Answer T	ype Questions)	3 x 5=15
2. V	Vrite the flow chart of for loop with an example.		(3)
	3. Write the flow chart of the while loop with an example.		
4. Explain with a code to use Max(), Min() and sorted() methods in a tuple.			(3)
5. Write a function that accepts lowercase words and returns uppercase words.			(3)
О. Б	riefly explain the three basic types of programmin O		(3)
В	riefly describe the properties of an algorithm.	•	(3)
	Grou	ір-С	
	(Long Answer Ty	/pe Questions)	5 x 6=30
	Explain the replication and concatenation operato examples.	r for strings in Python with suitable	(5)
	8. Write a python program to find the sum of N natural numbers.		(5)
9. Differentiate between logical and relational operators.		(5)	
10.	Write a python program to evaluate using while lo	op first N numbers divisible by 3.	(5)
11.	Distinguish class and object in python programmir	ng with an example.	(5)
12.	Define the two modes in Python programming.		(5)
	0	R	
	Define the concept of local and global variables.		(5)
