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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

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

1. Choose the correct alternative from the following:

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

Brainware University 398, Ramkrishnapur Road, Barasak Kolkata, West Bengal-700125

		40 41,		
a) 12	b) 123			
c) Error	d) None of these			
(ix) What will be the output of the following code?	x = 12 for i in x: print(i)	19		
a) 12	b) 12	30		
c) Error	d) None of the above	No.		
(x) What will be the output of the following Python				
a.extend([45,67]) print(a)	(,,,			
a) [13, 56, 17, [87], 45, 67]	b) [13, 56, 17, 87, 45, 67]			
c) [13, 56, 17, 87, [45, 67]]	d) [13, 56, 17, [87], [45, 67]]			
(xi) Is the following Python code valid? >>> a=(1,2,				
a) No because tuple is immutable c) Yes, the entire tuple is deleted	b) Yes, first element in the tuple is d	eletea		
(xii) What will be the output of the following Python	d) No, invalid syntax for del method			
{name2}".format(name1='foo', name2='bin'))	coder print(Helio (name1) and			
a) Hello foo and bin	1144 11 6 21 16 21			
c) Error	b) Hello (name1) and (name2)			
(xiii) The format function, when applied on a string re	d) Hello and			
a) list				
c) int	b) bool			
(xiv) Which module in Python supports regular expre-	d) str			
a) Re				
c) pyregex	b) regex			
(xv) What is Instantiation in terms of OOP terminolog	d) none of the these			
a) Deleting an instance of class c) Copying an instance of class	b) Modifying an instance of class			
c) copying an instance of class	d) Creating an instance of class			
Grou	In-B			
(Short Answer T		3 x 5=15		
	, pe Questions,	2 × 2-13		
2. Write the flow chart of for loop with an example.		(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.				
5. Write a function that accepts lowercase words and returns uppercase words.		(3)		
6. Briefly explain the three basic types of programming errors.		(3)		
0	R			
Briefly describe the properties of an algorithm.		(3)		
Grou				
(Long Answer Ty	/pe Questions)	5 x 6=30		
7. Explain the replication and concatenation operato	r for strings in Python with suitable	(5)		
examples. 8. Write a python program to find the sum of N natu	ral numbers	(E)		
 Write a python program to find the sum of N natu Differentiate between logical and relational opera 		(5) (5)		
10. Write a python program to evaluate using while lo	oop 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.				
O	R	(5)		
Define the concept of local and global variables.		(5)		