

Enrollment No.....



Faculty of Science  
End Sem (Even) Examination May-2022  
BC3SE09 Python Programming  
Programme: B.Sc. Branch/Specialisation: Computer Science

**Duration: 3 Hrs.****Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Which of the following symbol is used to make single line comments in Python? **1**  
(a) # (b) ' (c) \* (d) //
- ii. What will be the output of following statement? **1**  
Sum=10 +'10'  
(a) 1010 (b) 20 (c) TypeError (d) 10
- iii. Consider the list L1 containing the elements L1= [1,2,3] **1**  
What will be the output of the following statement?  
L1=L1 + [4,5,6]  
(a) L1= [1, 2, 3, 5, 7, 9] (b) L1= [5, 7, 9]  
(c) L1= [4, 5, 6] (d) L1= [1, 2, 3, 4, 5, 6]
- iv. What will be the output of the following program? **1**  
a='\t\tPython\n\n'  
print(a.strip( ))  
(a) Python\n (b) Python\n\n  
(c) Python (d) \t\tPython
- v. What will be the output of the following program? **1**  
count=35  
for x in range(0,10):  
count=count-1  
if(x==2):  
break  
print(count)  
(a) 35 (b) 32 (c) 35, 34, 33 (d) 34, 33, 32

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- vi. What will be the output of the following program? **1**  
 count=0  
 for x in range(1,3):  
     for y in range (4,6):  
         count=count+(x\*y)  
 print(count)  
 (a) 32            (b) 64            (c) 81            (d) 27
- vii. What will be the output of the following program? **1**  
 def perform\_multiplication(Num1, Num2):  
     Num2=Num1\*Num2  
     return Num1, Num2  
 Num2,Num1=perform\_multiplication(5,4)  
 print(Num1,',',Num2)  
 (a) 20, 5        (b) 20, 4        (c) 5, 20        (d) 4, 20
- viii. What will be the output of the following program? **1**  
 def say(message, times = 1):  
     print(message \* times)  
 say('Hello')  
 say('World', 5)  
 (a) Hello  
     WorldWorldWorldWorldWorld  
 (b) HelloHelloHelloHelloHello  
     WorldWorldWorldWorldWorld  
 (c) HelloWorld5  
 (d) Hello  
     World5
- ix. The close() method is used to conserve memory because : **1**  
 (a) It closes all unused memory created by Python.  
 (b) It deletes all the text related to a file.  
 (c) It compresses a file.  
 (d) It removes the reference created by file *open()* function.
- x. Which method is used to set the file pointer to a specific position in a file? **1**  
 (a) point( )      (b) move( )      (c) seek( )      (d) spec( )
- Q.2 i. List the main features of Python. **2**  
 ii. Explain the basic data types available in Python with examples. **4**

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- iii. What is the role of indentation in Python? Explain with suitable example. **4**
- OR iv. Discuss the arithmetic operators of Python? Write a program to read the weight of an object in kilogram and print its weight in pound and tonne. **4**  
 (Use 1 kg =2.20 pound  
     1 kg =0.001 tonne)
- Q.3 i. Differentiate 'pop' and 'remove' method on lists. How to delete more than one element from a list. **4**  
 ii. What is dictionary? How is it different from list? Write a program to concatenate two dictionaries. **6**
- OR iii. List any six methods associated with strings and explain each of them with an example. **6**
- Q.4 i. Explain multi-way 'if-elif-else' statement suitable example. **4**  
 ii. Compare break, pass and continue statement with suitable programming example. **6**
- OR iii. Write a program to generate and print all prime numbers between 10 and 50. **6**
- Q.5 Attempt any two:  
 i. Compare local and global variable. Write a function that takes a string check whether entered string is palindrome or not. **5**  
 ii. What is recursive function? Write a program to calculate factorial of given number using recursive function. **5**  
 iii. Describe module in Python with its advantages? Explain how to create and import own module. **5**
- Q.6 Attempt any two:  
 i. Describe different access modes of file. Give example of atleast two modes. **5**  
 ii. Explain the following methods associated with the file object (a) read( ) (b) readline( ) (c) tell( ) (d) write( ) **5**  
 iii. Write a program to demonstrate exception handling. **5**

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## Marking Scheme

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Q.1	i.	(a) #		1
	ii.	(c) Type Error		1
	iii.	(d) L1= [1, 2, 3, 4, 5, 6]		1
	iv.	(c) Python		1
	v.	(b) 32		1
	vi.	(d) 27		1
	vii.	(a) 20, 5		1
	viii.	(a) Hello		1
		WorldWorldWorldWorldWorld		
	ix.	(d) It removes the reference created by file <i>open()</i> function.		1
	x.	(c) seek( )		1
Q.2	i.	Step marking according to features listed		2
	ii.	Step marking according to description of basic data type.		4
	iii.	Explanation of role of indentation	2 Marks	4
		Example to explain role of indentation.	2 Marks	
OR	iv.	Step marking according to the correctness of program code.		4
Q.3	i.	Difference 'pop' and 'remove'	2 Marks	4
		Explanation of methods to delete more than one element from a list.	2 Marks	
	ii.	Step marking according to the correctness of program code.		6
			3 Marks	
OR	iii.	Any six methods associated with strings	1 mark for each (1 Mark*6)	6
Q.4	i.	Explanation of multi-way 'if-elif-else' statement.	4 Marks	4
	ii.	Comparison	3 Marks	6
		Suitable programming example	3 Marks	
OR	iii.	Step marking according to the correctness of program code		6
Q.5		Attempt any two:		
	i.	Comparison of local and global variable	2 Marks	5
		Step marking according to the correctness of program code	3 Marks	
	ii.	Definition of recursion	1 Mark	5

Step marking according to the correctness of program code.

			4 Marks	
iii.	Description of advantages of modules	2 Marks		5
	Explanation of creating and importing module.	3 Marks		
Q.6	Attempt any two:			
	i.	Step marking according to description of each access mode		5
	ii.	Description of methods -1.25 Marks for each	(1.25 Marks*4)	5
	iii.	Step marking according to the correctness of program code.		5

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