

Enrollment No.....



Faculty of Science
End Sem (Odd) Examination Dec-2018
CA3EL06 Python Programming
Programme: BCA Branch/Specialisation: Computer Application

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. What is the output of this expression, $3*1**3$? 1
(a) 27 (b) 9 (c) 3 (d) 1
- ii. Which of the following is invalid? 1
(a) `_a = 1` (b) `__a = 1` (c) `__str__=1` (d) None of these
- iii. Suppose list1 is [4, 2, 2, 4, 5, 2, 1, 0], Which of the following is correct syntax for slicing operation? 1
(a) `print(list1[0])` (b) `print(list1[:2])`
(c) `print(list1[:-2])` (d) All of these
- iv. What is the output of the following? 1
`print('abcdefcdghcd'.split('cd', 2))`
(a) ['ab', 'ef', 'ghcd'] (b) ['ab', 'efcdghcd']
(c) ['abcdef', 'ghcd'] (d) None of these
- v. What is the output of the following? 1
`x = ['ab', 'cd']`
`for i in x:`
`x.append(i.upper())`
`print(x)`
(a) ['AB', 'CD'] (b) ['ab', 'cd', 'AB', 'CD']
(c) ['ab', 'cd'] (d) None of these

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- vi. What is the output of the following? **1**
i = 1
while True:
 if i%2 == 0:
 break
 print(i)
 i += 2
(a) 1 (b) 1 2
(c) 1 2 3 4 5 6 ... (d) 1 3 5 7 9 11 ...
- vii. What is a variable defined outside a function referred to as? **1**
(a) A static variable (b) A global variable
(c) A local variable (d) An automatic variable
- viii. To include the use of functions which are present in the random library, we must use the option: **1**
(a) import random (b) random.h
(c) import.random (d) random.random
- ix. To open a file c:\scores.txt for reading, we use **1**
(a) infile = open("c:\scores.txt", "r")
(b) infile = open("c:\\scores.txt", "r")
(c) infile = open(file = "c:\scores.txt", "r")
(d) infile = open(file = "c:\\scores.txt", "r")
- x. To read the next line of the file from a file object infile, we use **1**
(a) infile.read(2) (b) infile.read()
(c) infile.readline() (d) infile.readlines()
- Q.2 i. What is Python? Where it is used? **2**
ii. What is the difference between Python 3 and 2? Describe at least three differences. **3**
iii. Describe bitwise and logical operators of python with example. **5**
- OR iv. What is variable? How do you define a variable in Python? **5**
Describe the property of variable.
- Q.3 i. How to create set and dictionary in python explain with an example. **2**

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- ii. Write a program that accepts a comma separated sequence of words as input and prints the words in a comma-separated sequence after sorting them alphabetically. **8**
- OR iii. Write in brief about dictionary in python. Write a program to concatenate two dictionaries into one dictionary. **8**
- Q.4 i. Describe for-else loop of python with example. **3**
ii. Write a program to print all the prime numbers from 1 to 100 using loop and range function. **7**
- OR iii. Write a program to take data of user such as name, age, salary and print the data in alphabetical order on name. **7**
- Q.5 i. Describe functions? How to define function? Write about different types of arguments in a function. **4**
ii. What is module? How to import module? Describe random module with an example. **6**
- OR iii. Write a password generator in Python. Be creative with how you generate passwords - strong passwords have a mix of lowercase letters, uppercase letters, numbers, and symbols. The passwords should be random, generating a new password every time the user asks for a new password. **6**
- Q.6 Attempt any two:
i. How to handle an exception using try except block? Explain with the help of a program. **5**
ii. What is file handling? How do you open a file and write the content to another file in python? **5**
iii. What is custom exception? Define a custom exception class which takes a string message as attribute. **5**

Marking Scheme
CA3EL06 Python Programming

Q.1	i.	What is the output of this expression, 3*1**3? (c) 3	1				
	ii.	Which of the following is invalid? (d) None of these	1				
	iii.	Suppose list1 is [4, 2, 2, 4, 5, 2, 1, 0], Which of the following is correct syntax for slicing operation? (d) All of these	1				
	iv.	What is the output of the following? print('abcdefcdghcd'.split('cd', 2)) (a) ['ab', 'ef', 'ghcd']	1				
	v.	What is the output of the following? x = ['ab', 'cd'] for i in x: x.append(i.upper()) print(x) (d) None of these	1				
	vi.	What is the output of the following? i = 1 while True: if i%2 == 0: break print(i) i += 2 (d) 1 3 5 7 9 11 ...	1				
	vii.	What is a variable defined outside a function referred to as? (b) A global variable	1				
	viii.	To include the use of functions which are present in the random library, we must use the option: (a) import random	1				
	ix.	To open a file c:\scores.txt for reading, we use (c) infile = open(file = "c:\scores.txt", "r")	1				
	x.	To read the next line of the file from a file object infile, we use (c) infile.readline()	1				
	Q.2	i.	Python definition Its Uses	1 mark 1 mark		2	
		ii.	Difference b/w Python 3 and 2 At least six differences.0.5 mark each	(0.5 mark *6)		3	
		iii.	Bitwise and logical operators of python with example. Logical operators Example Bitwise operator Example	2 marks 0.5 mark 2 marks 0.5 mark		5	
	OR	iv.	Variable definition Syntax Property	2 marks 1 mark 2 marks		5	
	Q.3	i.	Set creation Dictionary creation	1 mark 1 mark		2	
		ii.	Proper input Logic Proper output	2 marks 4 marks 2 marks		8	
	OR	iii.	Description of dictionary Proper input Logic Proper output	3 marks 1 mark 2 marks 2 marks		8	
	Q.4	i.	Loop Example	2 marks 1 mark		3	
		ii.	Proper input Logic Proper output	2 marks 3 marks 2 marks		7	
	OR	iii.	Proper input Logic Proper output	2 marks 3 marks 2 marks		7	
	Q.5	i.	Definition Declaration Types	1 mark 1 mark 2 marks		4	
		ii.	Definition Import syntax Example	2 marks 2 marks 2 marks		6	

OR	iii.	Proper input	2 marks	6
		Logic	2 marks	
		Proper output	2 marks	

Q.6		Attempt any two:		
	i.	Description	2 marks	5
		Example	3 marks	
	ii.	Description	2 marks	5
		Example	3 marks	
	iii.	Description	2 marks	5
		Example	3 marks	
