

Enrollment No.....



Faculty of Science
End Sem (Odd) Examination Dec-2019
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.

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|------------|------|--------------------------------------------------------------------------------------------|-------------------|
| Q.1 | i. | Which of the following is invalid variable declaration? | 1 |
| | (a) | my_string_1 (b) 1st_string (c) foo (d) _a | |
| | ii. | Is Python case sensitive when dealing with identifiers? | 1 |
| | (a) | Yes (b) No | |
| | (c) | Machine dependent (d) None of these | |
| | iii. | What is the output when following statement is executed? | 1 |
| | | >>>"abcd"[2:] | |
| | (a) | a (b) ab (c) cd (d) dc | |
| | iv. | Which of the following commands will create a list? | 1 |
| | (a) | list1 = list() | (b) list1 = []. |
| | (c) | list1 = list([1, 2, 3]) | (d) All of these |
| | v. | What is the output of the following? | 1 |
| | | x = ['ab', 'cd']
for i in x:
i.upper()
print(x) | |
| | (a) | ['ab', 'cd'] | (b) ['AB', 'CD'] |
| | (c) | [None, None] | (d) None of these |
| | vi. | What will be the output of the following python code? | 1 |
| | | i=1
while True:
if i % 007 == 0:
break
print(i)
i+=1 | |

P.T.O.

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- (a) 1 2 3 4 5 6 (b) 1 2 3 4 5 6 7
(c) Error (d) None of these
- vii. Which of the following is the use of function in python? **1**
(a) Functions are reusable pieces of programs
(b) Functions don't provide better modularity for your application
(c) You can't also create your own functions
(d) All of these
- viii. What is the length of sys.argv? **1**
(a) Number of arguments (b) Number of arguments +1
(c) Number of arguments -1 (d) None of these
- ix. When will the else part of try-except-else be executed? **1**
(a) Always
(b) When an exception occurs
(c) When no exception occurs
(d) When an exception occurs in to except block
- x. To open a file c:\scores.txt for writing, we use **1**
(a) outfile = open("c:\scores.txt", "w")
(b) outfile = open("c:\\scores.txt", "w")
(c) outfile = open(file = "c:\scores.txt", "w")
(d) outfile = open(file = "c:\\scores.txt", "w")
- Q.2 i. What are the key features of Python? **2**
ii. What is the purpose of PYTHONSTARTUP, PYTHONCASEOK, PYTHONHOME, PYTHONSTARTUP environment variables? **3**
iii. What are the supported data types in Python? Explain with example. **5**
OR iv. What is Python really? How you can make comparisons to other technologies? **5**
- Q.3 i. What is the difference between list and tuples? **2**
ii. Write a program to Concatenate Two Dictionaries into One. **8**
OR iii. Write a program to Check if a String is a Palindrome or Not. **8**
- Q.4 i. Explain String slices and indexing. **3**
ii. Explain while and for loops with syntax and example. **7**
OR iii. Explain break, pass and continue statements with an example. **7**

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- Q.5 i. Write a Python program to detect the number of local variables declared in a function. **4**
ii. Write a Python program to access a function inside a function. **6**
OR iii. Explain the concept of modules in python with suitable examples. **6**
- Q.6 Attempt any two:
i. Write a program (using functions!) that asks the user for a long string containing multiple words. Print back to the user the same string, except with the words in backwards order. **5**
ii. Explain how to handle exceptions in Python (try except). **5**
iii. Write a python program to show user defined exceptions **5**

Marking Scheme

CA3EL06 Python Programming

Q.1	i.	Which of the following is invalid variable declaration? (b) 1st_string	1
	ii.	Is Python case sensitive when dealing with identifiers? (a) Yes	1
	iii.	What is the output when following statement is executed? >>>"abcd"[2:] (c) cd	1
	iv.	Which of the following commands will create a list? (d) All of these	1
	v.	What is the output of the following? x = ['ab', 'cd'] (a) ['ab', 'cd']	1
	vi.	What will be the output of the following python code? (c) Error	1
	vii.	Which of the following is the use of function in python? (a) Functions are reusable pieces of programs	1
	viii.	What is the length of sys.argv? (b) Number of arguments +1	1
	ix.	When will the else part of try-except-else be executed? (c) When no exception occurs	1
	x.	To open a file c:\scores.txt for writing, we use (b) outfile = open("c:\scores.txt", "w")	1
Q.2	i.	Key features of Python 1 mark for each point (1 mark * 2)	2
	ii.	Purpose of PYTHONSTARTUP, PYTHONCASEOK, PYTHONHOME, PYTHONSTARTUP environment variables	3
	iii.	Supported data types in Python 1 mark for each point (1 mark *5)	5
OR	iv.	Python really Comparisons to other technologies	3 marks 2 marks
Q.3	i.	Difference between list and tuples At least two difference 1 mark for each (1 mark * 2)	2
	ii.	Program to Concatenate Two Dictionaries into One.	8

	OR	iii.	Program to Check if a String is a Palindrome or Not.		8
			Input	2 marks	
			Logic	6 marks	
			Output	2 marks	
		iii.	Program to Check if a String is a Palindrome or Not.		8
			Input	2 marks	
			Logic	6 marks	
			Output	2 marks	
Q.4		i.	String slices	1.5 marks	3
			Indexing	1.5 marks	
		ii.	While loops with syntax and example	3.5 marks	7
			For loops with syntax and example	3.5 marks	
	OR	iii.	Break statements	3 marks	7
			Pass statements	2 marks	
			Continue statements	2 marks	
Q.5		i.	Python program to detect the number of local variables declared in a function.		4
		ii.	Python program to access a function inside a function.		6
			Define and function	2 marks	
			Logic	4 marks	
	OR	iii.	Concept of modules in python		6
			Definition	3 marks	
			Import module (three types)	3 marks	
Q.6			Attempt any two:		
		i.	Program (using functions!)		5
			Input	2 marks	
			Logic	3 marks	
		ii.	Exceptions handling in Python (try except).		5
			Definition	2 marks	
			Program/syntax	3 marks	
		iii.	Python program to show user defined exceptions		5
			Definition	2 marks	
			Program logic	3 marks	
