

Enrollment No.....



Faculty of Science
End Sem (Even) Examination May-2019
BC3SE09 Python Programming
Programme: B.Sc. (CS) 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. How to define variable in python 1
 (a) int x=10 (b) integer \$x=10
 (c) x=10 (d) None of these
- ii. Which of these is not a fundamental datatype? 1
 (a) int (b) float (c) str (d) class
- iii. What is the output when the following code is executed? 1
`>>>"Welcome to Python".split()`
 (a) ["Welcome", "to", "Python"]
 (b) ("Welcome", "to", "Python")
 (c) {"Welcome", "to", "Python"}
 (d) "Welcome", "to", "Python"
- iv. What is the output when following code is executed? 1
`>>>names = ['Amir', 'Bear', 'Charlton', 'Daman']`
`>>>print(names[-1][-1])`
 (a) A (b) Daman (c) Error (d) n
- v. What is the output of the following? 1
`i = 1`
`while True:`
 `if i%3 == 0:`
 `break`
 `print(i,end="")`
 `i += 1`
 (a) 1 2 (b) 1 2 3 (c) Error (d) None of these

P.T.O.

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- vi. What is the output of the following? **1**
 for i in range(10):
 if i == 5:
 break
 else:
 print(i)
 else:
 print("Here")
 (a) 0 1 2 3 4 Here (b) 0 1 2 3 4 5 Here
 (c) 0 1 2 3 4 (d) 1 2 3 4 5
- vii. What is the output of the below program? **1**
 def sayHello():
 print('Hello World!', end='')
 sayHello()
 sayHello()
 (a) HelloHello
 (b) 'Hello World!' 'Hello World!'
 (c) Hello World!Hello World!
 (d) None of these
- viii. 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
- ix. To read two characters from a file object infile, we use **1**
 (a) infile.read(2) (b) infile.read()
 (c) infile.readline() (d) infile.readlines()
- x. Which of the following mode will refer to binary data? **1**
 (a) r (b) w (c) + (d) b
- Q.2 i. What are the main features of Python? **2**
 ii. What does variable mean in Python? How to create variable in python. **3**
 iii. Describe the fundamental data types in Python? Write the syntax to use data type. **5**

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- OR iv. What are the logical operators in Python? Describe with example. **5**
- Q.3 i. What is the difference between the append() and extend() methods of list in python? **2**
 ii. Write a python program to input two lists from user and find the intersection of lists. **8**
- OR iii. Write a python program to take strings from user and detect they are anagrams or not. **8**
 (Tips: listen and silent are anagram)
- Q.4 i. Describe loops in python. Write short note about for-else loop. **4**
 ii. Write a function called fizz_buzz that takes a number. **6**
 If the number is divisible by 3, it should return "Fizz".
 If it is divisible by 5, it should return "Buzz".
 If it is divisible by both 3 and 5, it should return "FizzBuzz".
 Otherwise, it should return the same number.
- OR iii. Write short note about pass, break and continue. Give example for each of them. **6**
- Q.5 i. What is function? How to define and call function in python? **4**
 ii. Write a function that prints all the prime numbers between 0 and limit where limit is a parameter. **6**
- OR iii. What is module? Describe any two predefined modules. Write a program to create module (demo.py) and import module (demo.py) in your program. **6**
- Q.6 Attempt any two:
 i. How do you use file handling in Python? Describe different modes to open a file. **5**
 ii. What do you mean by exception handling? What are advantages of exception handling? Write the syntax of try- except block. **5**
 iii. Write a python program to read a file and append some text in the file. **5**

Marking Scheme

BC3SE09 Python Programming

Q.1	i.	How to define variable in python (c) x=10	1
	ii.	Which of these in not a fundamental datatype? (d) class	1
	iii.	What is the output when the following code is executed? >>>"Welcome to Python".split() (a) ["Welcome", "to", "Python"]	1
	iv.	What is the output when following code is executed? >>>names = ['Amir', 'Bear', 'Charlton', 'Daman'] >>>print(names[-1][-1]) (d) n	1
	v.	What is the output of the following? (a) 1 2	1
	vi.	What is the output of the following? (c) 0 1 2 3 4	1
	vii.	What is the output of the below program? (c) Hello World!Hello World!	1
	viii.	Which of the following is the use of function in python? (a) Functions are reusable pieces of programs	1
	ix.	To read two characters from a file object infile, we use (a) infile.read(2)	1
	x.	Which of the following mode will refer to binary data? (d) b	1
Q.2	i.	Any four main features of Python 0.5 mark for each feature (0.5 mark * 4)	2
	ii.	Variable mean in Python Create variable in python.	3
	iii.	Fundamental data types in Python Syntax to use data type	5
OR	iv.	Logical operators in Python Example	5

Q.3	i.	Difference b/w the append() and extend() methods of list in python 1 mark for each difference (1 mark * 2)	2
	ii.	Python program to input two lists Input Logic Output	8
		2 marks 4 marks 2 marks	
OR	iii.	Python program to take strings Input Logic Output	8
		2 marks 4 marks 2 marks	
Q.4	i.	Definition of loops in python Description of for-else loop	4
	ii.	Write a function called fizz_buzz that takes a number. Input Logic Output	6
		2 marks 2 marks 2 marks	
OR	iii.	Pass Break Continue Example for each of them 1 mark for each (1 mark * 3)	6
		1 mark 1 mark 1 mark 3 marks	
Q.5	i.	Definition of function Define function in python Call function in python	4
	ii.	Function that prints all the prime numbers between 0 and limit where limit is a parameter Proper Input Proper Logic Proper Output	6
		2 marks 2 marks 2 marks	
OR	iii.	Definition of module Any two predefined modules Program to create module (demo.py) Program to import module (demo.py)	6
		1 mark 2 marks 2 marks 1 mark	

Q.6	Attempt any two:		
i.	Description of file handling in Python	2 marks	5
	Different modes to open a file.	3 marks	
ii.	Description of exception handling	2 marks	5
	Advantages of exception handling	2 marks	
	Syntax of try- except block.	1 mark	
iii.	Python program to read a file and append some text in the file.		5
	Proper code for read a file in proper mode	3 marks	
	Proper code to append some text	2 marks	
