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11.	what is dictionary in Python? Explain with an example.	2		
iii.	What do you mean by exception handling in python? Explain at	5		
	least six types of exceptions			

Total No. of Questions: 6

Total No. of Printed Pages:4

Enrollment No.....



Faculty of Engineering End Sem (Odd) Examination Dec-2019 OE00018 Python Essentials

Programme: B.Tech. Branch/Specialisation: All

Duration: 3 Hrs. Maximum Marks: 60

	_	estions are compulsory. Interestions are compulsory. Interestions are should be written in full inste	nal choices, if any, are indicated. An ad of only a, b, c or d.	nswers of
Q.1	i.	IronPython is written in:		1
		(a) C Language	(b) C++ Language	
		(c) Python Language	(d) C# Language	
	ii.	The invalid variable initializ	cation is:	1
		(a) $abc = 1,000,000$	(b) a b c = $1000\ 2000\ 3000$	
		(c) $a,b,c = 1000, 2000, 3000$	(d) $a_b_c = 1,000,000$	
	iii.	What is the output of the fol	lowing?	1
		for x in range (5.0) :		
		print(x)		
		(a) 0.0 1.0 2.0 3.0 4.0	(b) 0 1 2 3 4	
		(c) Error	(d) 0 1 2 3 4 5	
	iv.	What is the output of the fol		1
		x=0	-	
		while x<5:		
		x+=1		
		if x==3:		
		continue		
		print(x)		
		(a) Error (b) 0 1 2 3 4	(c) 1 2 4 5 (d) 0 1 2 4	
	v.	In Python setattr() is used:		1
		(a) To access the attribute of	f the object	
		(b) To set an attribute	,	
		(c) To check if an attribute of	exists or not	
		(d) To delete an attribute		
		` '		P.T.O.

P.T.O.

vi.	Correct syntax of file.writelines() is	1
	(a) file.writelines(sequence)	
	(b) fileobject.writelines()	
	(c) fileobject.writelines(sequence)	
	(d) None of these	
vii.	What is the use of duck typing?	1
	(a) More restriction on the type values that can be passed to a given method	
	(b) No restriction on the type values that can be passed to a given method	
	(c) Less restriction on the type values that can be passed to a given method	
	(d) Makes the program code smaller	
viii.	Which of the following statements is true?	1
	(a) A non-private method in a superclass can be overridden	
	(b) A subclass method can be overridden by the superclass	
	(c) A private method in a superclass can be overridden	
	(d) Overriding isn't possible in Python	
ix.	What will be the output of the following Python code?	1
	x=10	
	y=8	
	assert x>y, 'X too small'	
	(a) Assertion Error (b) 10 8	
	(c) No output (d) 108	_
х.	Which one of the following keyword is not used for exception handling in python?	1
	(a) try (b) catch (c) finally (d) except	
i.	Define indentation in python. Write at least four differences	4
	between C and Python programming.	
ii.	Write a program in python which accepts length and breadth from	6
	user and compute the area.	
iii.	Write a short note on Frozen Binaries, Docstring and Frozenset	6
	Datatype with example of each.	

Q.2

OR

Q.3	i.	What is lambda function in python? Explain with any one example.	4
	ii.	Write a python program to search a specific value from a given list of values using binary search method.	6
OR	iii.	Explain and write codes for following functions: (a) str() (b) globals() (c) locals() (d) exec() (e) eval() (f) vars()	6
Q.4	i.	What do you mean by pickle and unpickle in python? Give an example to illustrate each.	4
	ii.	Write a python program to search for city name in the file and display the record number that contains the city name. Expected outcome: Size of file (in Bytes) = 80 Bytes No. of records = 4 Enter City Name = Indore Found at record no. = 2	6
OR	iii.	Differentiate read(), readline() & readlines() and write a program to demonstrate all three methods.	6
Q.5	i.	How operator overloading can be implemented in Python? Give an example.	4
	ii.	What are the differences between abstract class and interface? Write a python program in which Maruti and Santro sub classes implement the abstract methods of the super class Car.	6
OR	iii.	Create a class student with following member attributes: roll no, name, age and total marks. Create suitable methods for reading and printing member variables. Write a python program to overload '==' operator to print the details of students having same marks.	6
Q.6	i.	Attempt any two: Describe how aliasing creates a problem in mutable data type with an example. P.	5 T.O.

Marking Scheme OE00018 Python Essentials

Q.1	i.	IronPython is written in:		1
	ii.	(d) C# Language The invalid variable initialization is:		1
	iii.	(b) a b c = 1000 2000 3000What is the output of the following?(c) Error		1
	iv.	What is the output of the following? (c) 1 2 4 5		1
	v.	In Python setattr() is used : (b) To set an attribute		1
	vi.	Correct syntax of file.writelines() is (c) fileobject.writelines(sequence)		1
	vii.	What is the use of duck typing?(c) Less restriction on the type values that can be passed to a given method		
	viii.	Which of the following statements is true? (a) A non-private method in a superclass can be over	rridden	1
	ix.	What will be the output of the following Python code? (c) No output		1
	х.	Which one of the following keyword is not used handling in python? (b) catch	for exception	1
Q.2	i.	At least four differences between C and Python prog	2 marks gramming 2 marks	4
	ii.	Write a program in python compute the area. Stepwise marking		6
OR	iii.	Frozen Binaries, Docstring and Frozenset Datatype 1 mark for each definition (1 mark * 3) I mark for each example (1 mark * 3)	3 marks 3 marks	6
Q.3	i.	Lambda function in python Any one example	2 marks 2 marks	4

	ii.	Write a python program		6
		User input	2 marks	
		Binary search concept	2 marks	
		Correct output	2 marks	
OR	iii.	Explain and write codes for following functions:		6
		1 mark for each function	(1 mark * 6)	
Q.4	i.	Pickle	2 marks	4
		Unpickle	2 marks	
	ii.	Write a python program Stepwise marking		6
OR	iii.	Differentiate read(), readline() & readlines()	3 marks	6
		Program to demonstrate all three methods.	3 marks	
Q.5	i. How operator overloading can be implemented in Python		Python	4
		Definition	2 marks	
		Example	2 marks	
	ii.	Differences between abstract class and interface	3 marks	6
		Program	3 marks	
OR	iii.	Python program to overload '==' operator to print the details of		6
		students having same marks.		
		Class creation	2 marks	
		Methods	2 marks	
		Overloading	2 marks	
Q.6		Attempt any two:		
	i.	Aliasing creates a problem in mutable data type		5
		Definition	3 marks	
		Example	2 marks	
	ii.	Definition of dictionary in Python	3 marks	5
		Example	2 marks	
	iii.	Exception handling in python	2 marks	5
		At least six types of exceptions		
		0.5 mark for each (0.5 mark * 6)	3 marks	
