Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....

MA	DI-C	SO
	VIVERSI	Y
Knov	wledge is P	ower

Duration: 3 Hrs.

Faculty of Science / Engineering End Sem (Odd) Examination Dec-2022

CA3EL06 Python Programming

Programme: BCA / BCA-MCA Integrated

Branch/Specialisation: Computer Application

Maximum Marks: 60

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

) .1	i.	Standard python compiler is	written in	language.
		(a) VC++ (b) C++	(c) C	(d) PERL
	ii.	Python was created in the ear	ly and o	lesigned by
		(a) 1991 and Guido van Ross	um	
		(b) 1995 and James Gosling		
		(c) 1972 and Alan Kay		
		(d) 2004 and Martin Odersky		
	iii.	In order to store values in ter	ms of key and	l value, which data type
		is used?		
		(a) List	(b) Tuple	
		(c) Class	(d) Dictionar	y
	iv.	What type of data is: $a=[(1,1)]$),(2,4),(3,9)]?	
		(a) Array of tuples	(b) List of tu	ples
		(c) Tuples of lists	(c) Invalid ty	•
	V.	What arithmetic operators can		vith strings?
		(a) + (b) $*$	(c) –	(d) All of these
	vi.	What is the output of the follo	owing for loop	and range() function-
		for num in range $(-2,-5,-1)$:		
		<pre>print(num, end=", ")</pre>		
		(a) -2, -1, -3, -4		
		(b) -2, -1, 0, 1, 2, 3		
		(c) -2 , -1 , 0		
		(d) -2, -3, -4		

P.T.O.

[3]

OK	111.	example.	nd pass statements in python with an	1
Q.5	i.	What is module? What are	the advantages of using module?	4
	ii.	What is recursive function factorial of a number using	? Write a python program to calculate recursive function.	6
OR	iii.	Explain various functions suitable example.	of math, random and time module with	6
Q.6		Attempt any two:		
	i.	What is exception handling in python.	g? List and explain any five exceptions	5
	ii.	1 1 "	methods for openings and closing a file. count the number of lines in a text file.	5
	iii.	Discuss the following meth	nods associated with the file object:	5
		(a) read()	(b) readline()	
		(c) readlines()	(d) tell()	
		(e) seek()	(f) write()	

Marking Scheme CA3EL06 Python Programming

Q.1	i)	Answer: C	1
	ii)	Answer: A	1
	iii)	Answer: D	1
	iv)	Answer: B	1
		Explanation: The variable a has tuples enclosed in a list making it a list of tuples.	
	v)	Answer: C	1
	vi)	Answer :D	1
	vii)	Answer: A	1
	viii)	Answer: D	1
	ix)	Answer: C	1
	x)	Answer: A	1
Q.2	i.	What are the rules for local and global variables in Python?	2
		Explain rules for both the variables- 2 Mark	
	ii.	What are the Differences between Python 2 and Python 3 (Any 3	3
		difference)?	
	1	Difference between Python 2 and Python 3 – 3 Mark	_
	iii.	List the features of Python programming languages (at least 5)	5
		Features of python programming with example (At least 5)- 5 Mark	
OR	iv.	Write the steps to install and run python in windows or ubuntu	5
		operating system. Write a program to print an Inverted Star Pattern.	
		Write the steps to install and run python in windows or ubuntu	
		operating system 2 Mark	
		operating system. 2 mark	
		Write a program to print an Inverted Star Pattern. – 3 Mark	
0.2		What is the significant difference between list and distinguis?	2
Q.3	i.	What is the significant difference between list and dictionary?	2
		What is the significant difference between list and dictionary- 2	
		Mark	
	ii.	Explain the types of methods available in python with a suitable	8

OR	iii.	example of each method. Write a program to add a Key-Value Pair to the Dictionary. Types of methods available in python with example - 5 Mark Syntax and variable declaration -1 Mark Dictionary Logic - 2 Mark Explain the Basic Operators in Python With Examples.(At least 5) Explanation of Operators and examples - 5 Mark (1 Mark each) Explanation of Precedence and Associativity of Operators in Python- 3 Mark	8
Q.4	i.	How do you traverse through a dictionary object in Python? Explanation of dictionary: 1 Mark Syntax: 2 Mark "for" and "in" loop for traversing the dictionary object. a_dict = {'color': 'blue', 'fruit': 'apple', 'pet': 'dog'} >>> for key in a_dict: print(key) output: color fruit pet	3
	ii.	Explain the "while loop" in python. Write a program that asks the user how many Fibonacci numbers to generate and then generates them Explain while loop – 2 Mark Declaration and syntax - 1 Mark Logic – 4 Mark nterms = int(input("How many terms? ")) # first two terms n1, n2 = 0, 1 count = 0 # check if the number of terms is valid if nterms <= 0:	7

print("Pibonacci sequence upto",nterms,":") print("Fibonacci sequence upto",nterms,":") print("Fibonacci sequence:") while count < nterms: print(n1) nth = n1 + n2 # update values n1 = n2 n2 = nth count += 1 OR iii. Explain break, continue and pass statements in Python with an example. Break statement and example – 3 Mark, Continue statement with example – 2 Mark Pass statement with example – 2 Mark What is module? what are the advantages of using module? What is module – 2 Marks advantages – 2 Marks ii. what is recursive function? write a python program to calculate factorial of a number using recursive function? Recursive function – 2 Mark input and syntax – 2 Mark Logic – 2 Mark OR iii. Explain various functions of math, random and time module with suitable example? Functions of math module with example – 2 Mark (without example – 1 Mark) Functions of time module with example – 2 Mark (without example – 1 Mark) Functions of time module with example – 2 Mark (without example – 1 Mark) Functions of time module with example – 2 Mark (without example – 1 Mark) Functions of time module with example – 2 Mark (without example – 1 Mark) Functions of time module with example – 2 Mark (without example – 1 Mark) Functions of time module with example – 2 Mark (without example – 1 Mark)		1		
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Q.6			
	i.	What is exception handling? List and explain any five exceptions in Python.	5
		Exception handling – 2 Mark	
		List and explain any five exceptions in Python 3 Mark (without explanation- 1 mark)	
	ii.	Explain open() and close () methods for openings and closing a file. Write a Python program to count the number of lines in a text file.	5
		Explain open() and close () methods- 2 Mark	
		Syntax and variable define – 1 Mark	
		Logic / output – 2 Mark	
	iii.	Discuss the following methods associated with the file object a) read() b) readline() c) readlines() d) tell() e) seek() f) write()	5
		Explanation - 5 Mark (1 Mark each)	
