f4B se C.s./I/ Python/40

Q.P. Code: 756002

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N.B.: (1) All the questions are compulsory. (2) Figures to the right indicate full marks. (3) Illustrations, in-depth answers and diagrams will be appreciated. (4) Mixing of sub-questions is not allowed. 1. Attempt All (Each of 5 Marks) (a) Multiple choice questions: (1) Which of these in not a core data type? (i) List (ii) Dictionary
(2) Figures to the right indicate full marks.
(3) Illustrations, in-depth answers and diagrams will be appreciated.
(4) Minimum C. 1
(4) Mixing of sub-questions is not allowed.
1. Attempt All (Each of 5 Marks)
(a) Multiple choice questions:
(1) Which of these in not a core data type?
(i) List (ii) Dictionary (iii) Typle (iv) Class
(iii) Typle (iv) Class
(2) Python islanguage.
(i) Compiled (ii) Procedure
(iii) Interpreted (iv) Non-Interactive
(3) To add a new element to a list we use which command?
(i) list1.add (5) (ii) list1.append (5)
(iii) list1.addLast (5) (iv) list1.addEnd (5)
(4) Which of the following is a python typle?
(i) $[1, 2, 3]$ (ii) $(1, 2, 3)$
(iii) {1, 2, 3} (iv) {}
(5) What gets printed ? Assuming python version 3.4.3
print (type $(1/2)$).
(i) <type int'=""> (ii) <type 'number'=""></type></type>
(iii) <type 'tuple'=""> (iv) <type 'float'=""></type></type>

(b)	Fill	in	the	b	lank	S
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(1) What is the average value of the code that is executed below

>>> grade1 = 80

 $\Rightarrow \Rightarrow$ grade 2 = 90

>>> average = (grade1 + grade2) /2

(2) What is the output of the following _____

X = ['ab', 'cd']

for i in X:

i.upper ()

print (X)

(3) What data type is the object below ______ L = [1, 23, 'hello', 1]

(4) In order to store values in terms of key and value we use what core data type?

(5) What is the output when following statement is executed

>>> "a" + "bc"

(c) Short notes:

(1) What is comment in python programming?

(2) Explain ** operator.

(3) What is the use of del statement?

(4) Explain interpreter.

(5) Write any two methods of Dictionary datatype.

2. Answer any three from the following: (Each of 5Marks)

(a) What are the reasons for python being the first programming language of learners?

(b) What are the arithmetic operators in python? Explain with example.

(c) Explain tuple with example.

(d) What is the role of indentation in python? Provide example to support your answer.

TURN OVER

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	(e)	Write a python program to calculate area of rectangle and circle and print the result .Take input from user (length. breadth and radius)				
	(f)					
3. /	Answer	any three from the following: (Each of 5Marks) Explain if-elif condition. When do we use it? Explain with example. Explain break and continue statements when do we use it? What is posted loop? Explain with	26			
	(a)	Explain if-elif condition. When do we use it? Explain with example				
1	(b)	Explain break and continue statements when do we use it?				
	(c)	What is nested loop? Explain with example.				
	(d)					
	(e)	Illustrate the use of range () in python along with an example.				
	(f)	Write a python program to print table of number, Take number from				
		user.				
4. A	nswer	any three from the following: (Each of 5Marks)	15			
	(a)	Write a short note on class in object - oriented programming.	1.			
	(b)	Discuss anonymous function.				
	(c)	What is List? Explain with example.				
	(d)	Explain map () function with example.				
	(e)	Write a python program to create a user defined function to calculate				
		square of number and square root of number. Take number from user				
	(f)	Write a program in python to create a function using lambda to add two				
		numbers.				
5. A	nswer a	my three from the following: (Each of 5 Marks)	15			
	(a)	What is variable? Why we use it? What does mean by implicit	13			
·		declaration of variables?				
	(b)	How to create Dictionary in python? Give example.				
	(c)	How doescfunction return a value? Give example				
	(d)	Write a python program to take a string from user and count number of vowel present in it.				
	(e)	Explain Random module and its function.				
	?					