22616

21222

3 Hours / 70 Marks

Seat No.								
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15 minutes extra for each hour

- Instructions (1) All Questions are Compulsory.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any <u>FIVE</u> of the following:

10

- a) Name different modes of python.
- b) List identity operators in python.
- c) Give two differences between list and tuple.
- d) Explain Local and Global variable.
- e) Define class and object in python.
- f) How to give single and multiline comment in python.
- g) List different modes of opening file in python.

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			Marks
2.		Attempt any THREE of the following:	12
	a)	Write a program to print following:	
		1 1 2	
		1 2 3	
		1 2 3 4	
	b)	Explain four Buit-in tuple functions python with example.	
	c)	Explain how to use user defined function in python with example.	
	d)	Write a program to create class EMPLOYEE with ID and NAME and display its contents.	
3.		Attempt any THREE of the following:	12
	a)	List Data types used in python. Explain any two with example.	
	b)	Explain membership and assignment operators with example.	
	c)	Explain indexing and slicing in list with example.	
	d)	Write a program for importing module for addition and substraction of two numbers.	
4.		Attempt any THREE of the following:	12
	a)	Write a program to create dictionary of students that includes their ROLL NO. and NAME.	
		i) Add three students in above dictionary	
		ii) Update name = 'Shreyas' of ROLL NO = 2	
		iii) Delete information of ROLL NO = 1	
	b)	Explain decision making statements If-else, if-elif-else with example.	
	c)	Explain use of format () method with example.	
	d)	Explain building blocks of python.	
	e)	Write a program illustrating use of user defined package in python.	

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python.

python with example.

16	[3]		
		Marks	
	Attempt any TWO of the following:		
a)	Write the output of the following:		
	i) >>> a = [2, 5, 1, 3, 6, 9, 7]		
	>>> a [2 : 6] = [2, 4, 9, 0]		
	>>> print (a)		
	ii) >>> b = ["Hello", "Good"]		
	>>> b. append ("python")		
	>>> print (b)		
	iii) >>> t ₁ = [3, 5, 6, 7]		
	>>> print (t ₁ [2])		
	>>> print (t ₁ [-1])		
	>>> print (t ₁ [2:])		
	>>> print (t ₁ [:])		
b)	Explain method overloading in python with example.		
c)	Write a program to open a file in write mode and appearance contents at the end of file.	end	
	Attempt any TWO of the following:	12	
a)	Explain package Numpy with example.		
	a) b) c)	Attempt any TWO of the following: a) Write the output of the following: i) >>> a = [2, 5, 1, 3, 6, 9, 7] >>> a [2 : 6] = [2, 4, 9, 0] >>> print (a) ii) >>> b = ["Hello", "Good"] >>> b. append ("python") >>> print (b) iii) >>> t ₁ = [3, 5, 6, 7] >>> print (t ₁ [2]) >>> print (t ₁ [2:]) >>> print (t ₁ [:]) b) Explain method overloading in python with example. c) Write a program to open a file in write mode and appearance on the same contents at the end of file. Attempt any TWO of the following:	

b) Write a program to implement the concept of inheritance in

c) Explain Try-except block used in exception handling in