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Marks

23124 3 Hours / 70 Marks

Seat No.		 	 	 	
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Instructions : (1) All Questions are *compulsory*.

- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data, if necessary.

10 1. Attempt any FIVE of the following : (a) State the need of inheritance in python. State different membership operators in python. (b) (c) Enlist any four data types in python. (d) Write the use of slicing operation on list. (e) Define local variable and global variable. State the use of upper() in python. (f) Enlist any four built-in exceptions in python. (g) 2. Attempt any THREE of the following : 12 (a) Explain any four methods of dictionary. Explain any four relational operators in python. (b)



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(c) Write the output of the following program :

flowers = ["champa", "dessy", "jasmine",

"lotus", "marigold", "rose",

"sunflower", "tulip"]

print (flowers [1:5])

(d) Explain any four built-in functions in python.

3. Attempt any THREE of the following :

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- (a) Explain multilevel inheritance with suitable example.
- (b) Write a program to create a dictionary having three keys (fruits, flowers, birds). Each key should contain a list of any three values. Print keys and values of dictionary on screen.
- (c) Write any four applications of python.
- (d) Write a program to generate and print following number pattern :

4. Attempt any THREE of the following :

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(a) Compare list and tuple data structure (any four points).

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(b) Write a program to display contents of the file "myfile.txt" on the screen.

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(c) Write the output of the following program for x in range (1, 10):

if x = 5:

continue

else :

print (*x*)

- (d) Write a program to illustrate the use of union (), intersection (), difference () operation on set data structure.
- (e) Explain user defined function with its syntax.

5. Attempt any TWO of the following :

- (a) Define exception. Explain the procedure for handling exception in python.
- (b) Write a program to create user defined exception 'InvalidUserException'. Write a program to accept name of the user and raise the 'InvalidUserException' if username is not 'admin'. Display welcome message otherwise.
- (c) Explain multiple inheritance with suitable example.

6. Attempt any TWO of the following :

- (a) Explain module in python. Write a procedure to create and use a module in python with suitable example.
- (b) Write any three functions available in 'Math' module and any three functions available in 'os' module.

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(c) Create the classes as shown in the following diagram :



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