

H2-35
22616

21222

3 Hours / 70 Marks

Seat No.

2	2	3	8	6	5		
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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 FIVE of the following:

10

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

P.T.O.

2. Attempt any THREE of the following:

a) Write a program to print following:

1

1 2

1 2 3

1 2 3 4

b) Explain four Built-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 subtraction 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.

5. 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) `>>> t1 = [3, 5, 6, 7]`
`>>> print (t1 [2])`
`>>> print (t1 [-1])`
`>>> print (t1 [2:])`
`>>> print (t1 [:])`

b) Explain method overloading in python with example.

c) Write a program to open a file in write mode and append some contents at the end of file.

6. Attempt any TWO of the following:**12**

a) Explain package Numpy with example.

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

c) Explain Try-except block used in exception handling in python with example.
