

# 22616

**23124**

**3 Hours / 70 Marks**

Seat No. 

--	--	--	--	--	--	--	--

- 
- 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**
- a) Enlist applications for python programming.
  - b) Write the use of elif keyword in python.
  - c) Describe the Role of indentation in python.
  - d) Define Data Hiding concept ? Write two advantages of Data Hiding.
  - e) State use of namespace in python.
  - f) State the use of read() and readline() functions in python file handling.
  - g) Explain two ways to add objects / elements to list.

P.T.O.

2. Attempt any THREE of the following : 12
- a) Explain membership and Identity operators in Python.
  - b) Write python program to display output like.  
2  
4 6 8  
10 12 14 16 18
  - c) Explain four built-in list functions.
  - d) Write python program using module, show how to write and use module by importing it.
3. Attempt any THREE of the following : 12
- a) Describe various modes of file object ? Explain any two in detail.
  - b) Explain use of Pass and Else keyword with for loops in python.
  - c) T = ('spam', 'Spam', 'SPAM!', 'SaPm')  
print (T[2])  
print (T[-2])  
print (T[2:])  
print (List (T))
  - d) Explain method overloading and overriding in python.
4. Attempt any THREE of the following : 12
- a) Explain different functions or ways to remove key : value pair from Dictionary.
  - b) Explain Numpy package in detail.
  - c) Explain seek ( ) and tell ( ) function for file pointer manipulation in python with example.
  - d) WAP to read contents of first.txt file and write same content in second.txt file.

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

- a) Explain any four set operations with example.
- b) Explain building blocks of python.
- c) Write a program illustrating use of user defined package in python.

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

- a) Write a program to create class student with Roll no. and Name and display its contents.
  - b) Write program to implement concept of inheritance in python.
  - c) List and explain any four built-in functions on set.
-