

# 22616

**12425**

**03 Hours / 70 Marks**

Seat No. 

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- Instructions –*
- (1) All Questions are *Compulsory*.
  - (2) Assume suitable data, if necessary.
  - (3) Use of Non-programmable Electronic Pocket Calculator is permissible.
  - (4) 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) List features of Python.
- b) List membership operators in Python.
- c) Compare list and Tuple.
- d) List different object oriented features supported by Python.
- e) State how to perform comments in Python.
- f) Define class and object.
- g) List different modes of opening file in Python.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Explain decision making statements if-else, if-elif-else with example.
  - b) Describe any four methods of list in Python.
  - c) Write a program illustrating use of user defined package in Python.
  - d) Describe various modes of file object? Explain any two in detail.
- 3. Attempt any THREE of the following:** **12**
- a) Explain identity and assignment operators with example.
  - b) How to create dictionary in Python? Write any three methods of dictionary.
  - c) Explain how to use user defined function in Python with example.
  - d) Describe the concept of inheritance in Python with example.
- 4. Attempt any THREE of the following:** **12**
- a) Explain loop control statement in Python.
  - b) Illustrate with example method overloading.
  - c) Write a Python program to check for zero division errors exception.
  - d) Write the output for the following if the variable fruit = 'banana'.  

```
>> fruit [:3]  
>> fruit [3:]  
>> fruit [3:3]  
>> fruit [:]
```
  - e) Write a Python program to read contents from "a.txt" and write same contents in "b.txt".

- 5. Attempt any TWO of the following:** **12**
- a) Explain basic operation performed on set with suitable example.
  - b) How to write, import and alias modules.
  - c) Design a class student with data members; Name, Roll No., Address. Create suitable method for reading and printing students details.
- 6. Attempt any TWO of the following:** **12**
- a) Determine various data types available in Python with example.
  - b) Write a Python program to read contents of first.txt file and write same content in second.txt file.
  - c) Explain Try-except-else-finally block used in exception handling in Python with example.
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