

22616

12223

3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Illustrate your answer with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data, if necessary.
- (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (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) List Python features. (Any four)
 - b) List comparison operators in Python.
 - c) Describe Tuples in Python.
 - d) Write use of lambda function in python.
 - e) Write syntax of defining class in Python.
 - f) List file operations in Python.
 - g) Describe indentation in Python.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Describe bitwise operators in Python with example.
 - b) Write any four methods of dictionary.
 - c) What is local and global variables? Explain with appropriate example.
 - d) Write python program to illustrate if else ladder.
- 3. Attempt any THREE of the following:** **12**
- a) Write basis operations of list.
 - b) Write Python code for finding greatest among four numbers.
 - c) Illustrate with example method over loading.
 - d) Explain how try-catch block is used for exception handling in python.
- 4. Attempt any THREE of the following:** **12**
- a) Compare list and dictionary. (Any 4 points)
 - b) What is command line argument? Write python code to add two numbers given as input from command line arguments and print its sum.
 - c) Write python code to count frequency of each characters in a given file.
 - d) Write python program to read contents of abc.txt and write same content to pqr.txt.
- 5. Attempt any TWO of the following:** **12**
- a) Write different data types in python with suitable example.
 - b) Example module. How to define module.
 - c) Write python program to perform following operations on Tuples;
 - i) Create set
 - ii) Access set Element
 - iii) Update set
 - iv) Delete set

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

- a) Explain mutable and immutable data structures.
 - b) Design a class student with data members; Name, roll number address. Create suitable method for reading and printing students details.
 - c) Create a parent class named Animals and a child class Herbivorous which will extend the class Animal. In the child class Herbivorous over side the method feed (). Create a object of the class Herbivorous and call the method feed.
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