



Time: 2½ hrs.

Marks:75

- Note:**
1. All questions are compulsory with internal options.
 2. Figures to the right indicate full marks.
 3. Draw neat diagram wherever necessary.

- Q.1 Answer the following (any Four) (20)**
- (a) Explain the features of python.
 - (b) Explain input function with example.
 - (c) Write a short note on set in python.
 - (d) What is the difference between comment and docstring in python?
 - (e) Explain the if...else construct with example.
 - (f) Explain continue statement with example.
- Q.2 Answer the following (any Four) (20)**
- (a) Explain the Precedence of operators with example.
 - (b) What is function? Explain with example.
 - (c) What is recursive function? Explain with example.
 - (d) Write a program to check if the number is even or odd.
 - (e) Explain the basic array operations with example.
 - (f) Write a short note on module.
- Q.3 Answer the following (any Four) (20)**
- (a) How to remove spaces in string? Explain with example.
 - (b) Explain the different methods of comparing the strings with example.
 - (c) What is the difference between List and Tuple.
 - (d) What is List? Explain with example.
 - (e) How to create a Dictionary in Python? Give example.
 - (f) Explain any five functions of String in python.
- Q.4 Answer the following (any Five) (15)**
- (a) Explain assert statement with example.
 - (b) Explain slicing and indexing in NumPy.
 - (c) Explain how to use lambda function with map () function.
 - (d) What are the attributes of an array? Explain.
 - (e) Write a function to check if the number entered by the user is positive or negative.
 - (f) Explain compound data types.

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