N.B.   1) All questions are compulsory.
2) Figures to the right indicate marks.
3) Illustrations, in-depth answers and diagrams will be appreciated.
4) Mixing of sub-questions is not allowed.
5) Assume suitable data wherever required.

Q.1   Attempt All (Each of 5 marks)   [15Marks]
a. **Multiple Choice Questions**

1. +,-, * , % are _____ operators.
    a. Arithmetic   b. Logical   c. Assignment   d. Assert
2. Which of the following function converts a string to all uppercase?
    a. upper( )   b. capital ( )   c. lower ( )   d. title ( )
3. Python is _____language.
    a. compiled   b. interpreted   c. non-interactive   d. procedure
4. What is the output of max[100,96,46,33]?
    a. 100   b. 96   c. 46   d.33
5. What is "Hello World".istitle( )?
    a. True   b. False   c. Error   d. None of these

b. **Fill in the blanks.**

1. What is the data type of below object _____?
    D= {"mouse" : "input", "monitor" : "output"}
2. // operator is used for _____
3. An instance of class is called an _____.
4. To use sqrt ( ) function we need to import _____ module.
5. What is the output when following statement is executed _____?
    >>> "a" + "bcd"

c. **Write answers for the following in few lines.**

1. Explain use of continue statement.
2. How to denote single line comment in python.
3. How to create dictionary using dict( ) function.
4. Write the use of del statement.
5. Write syntax to create a list.

Q.2 Answer the following. (Attempt any three)   [15marks]
a. Define variable. Explain different rules for defining a variable.
b. Write a program to calculate area of square and rectangle .Take input from user.
c. Explain various data types in python.
d. Explain any five relational operators.
e. Write a short note on Tuple.
f. Explain isalnum( ),find( ), replace( ) with examples.

Q.3 Answer the following.(Attempt any three)   [15marks]

   a. Explain Break statement with example.

   b. Write a program to find even or odd number. Take the input from user.

   c. Explain for loop with an example.

   d. Write a program to print reverse of a number .Take input from user.

   e. Write a program to differentiate between local and global variable.

   f. What is nested while loop?

Q.4 Answer the following. (Attempt any three)   [15marks]

   a. Explain dictionary concept.

   b. Explain any five dictionary methods.

   c. Explain any 5 built in functions.

   d. What is anonymous function?

   e. Write a short note on class.

   f. Write a program to create anonymous function to calculate average of numbers.

Q.5 Answer the following.(Attempt any three)   [15marks]

   a. Explain math module and its function.

   b. Explain operator precedence.

   c. How to update elements in a list?

   d. Write a program to find factorial of a number.

   e. Define user defined functions. Write the syntax to define user defined function. Give example for the same