**UNIVERSITY COLLEGE OF ENGINEERING (BIT CAMPUS), TIRUCHIRAPPALLI-620 024**

**First Internal Assessment Test**

**Department of CSE / IT**

**Subject Code :** **GE8151**

**Subject Name : Problem Solving and Python Programming**

**Date&Duration :** 13.10.2018 & 11am - 12.30 pm **Marks:50**

**Degree/Branch:** B.E/B.Tech - Mechanical – Sec’**I**’ **Year/Semester:** I / I

**PART-A**

**Answer *All* Questions 7 x 2 = 14**

1. What are the features of python?
2. What is an algorithm?
3. Write an algorithm for a given number is odd or even.
4. Draw the flowchart to find the area of the circle.
5. Write a pseudo code for greatest of two numbers.
6. Define sequence, selection and iteration.
7. Define Variable. Point Out the rules to be followed for naming any identifier.

**PART-B**

**Answer any *two* Questions 2 x 12 = 24**

1. Explain Building blocks of an algorithm in brief?
2. Explain algorithmic problem solving techniques in detail.
3. Write an algorithm for insert a card in a list of sorted cards.

Mycards=[15,7,11,19,12,16,14]

**PART-C 1x 12 = 12**

1. Describe the algorithm of Towers of Hanoi problem with sketch.

**UNIVERSITY COLLEGE OF ENGINEERING (BIT CAMPUS), TIRUCHIRAPPALLI-620 024**

**Second Internal Assessment Test**

**Department of CSE / IT**

**Subject Code :** **GE8151**

**Subject Name : Problem Solving and Python Programming**

**Date&Duration :** 09.11.2018 & 11.15am - 12.45 pm **Marks:50**

**Degree/Branch:** B.E/B.Tech - Mechanical – Sec’**I**’ **Year/Semester:** I / I

**PART-A**

**Answer *All* Questions 7 x 2 = 14**

1. Define interpreter.
2. Give the various data types in Python.
3. Discuss about continue and break statements.
4. List out the escape sequence characters.
5. List out the types of operators.
6. What will be the output of the following code

a=60

b=13

print(a&b)

print(a|b)

1. Define literals and its types.

**PART-B**

**Answer allQuestions 3 x 12 = 36**

1. Explain Decision making statements with syntax and example code.
2. Explain looping statements with syntax and example code.
3. Explain in details about logical, membership and identity operators with example code.

UNIVERSITY COLLEGE OF ENGINEERING -

BIT CAMPUS TRICHY

DEPARTMENT OF CSE/IT,

Subject: GE8151-PSPP Date – 05-12-2018

Year/Section : I yr – I(Mech) Sem - I

Time: 3.00 Hour Max: 100 Marks

Part-A

1. Define algorithm and pseudo code?
2. State the difference between iteration and recursion?
3. Explain input and output statements on python?
4. What is the comment statement in python?
5. What are the various parameter passing techniques?
6. State the differences between linear search and binary search?
7. Define dictionary and tuples.
8. Define mutable and promotable data type.
9. Define file and list the file opening models.
10. Define pickling.

Part-B

1. a. Explain towers of Hanoi problem with a neat sketch. Write the algorithm to explain the tower of Hanoi problem in detail.

(or)

1. b. Explain about algorithm development process and building blocks of algorithm.
2. a. what are the types of operators supported by

python language? List the operators and explain them.

(or)

1. b. Explain python modules in detail. Explain some of the build-in modulus available in python.
2. a. explain about parameter passing techniques with suitable examples.

(or)

1. b. what is a fruitful function? What are the parameters used in the fruitful functions.
2. a. Explain about list and its types?

(or)

1. b. Explain the data type dictionary with example?
2. a. Write a python program to find the longest word in a file.

(or)

15.b. Explain with examples modules and packages.