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SCHOOL OF ENGINEERING AND TECHNOLOGY
II MID TERM THEORY EXAMINATIONS: JANUARY 2022

B.TECH. SEMESTER-I
INTRODUCTION TO IT AND PYTHON PROGRAMMING
BTEBE106

Time: 2 Hour

M.M.: 20

All questions are compulsory.

Q.1. Attempt any 8.

(1x8=8)

- 1) Write python code to display calendar .
- 2) Define algorithm. Give the symbols used in it.
- 3) Explain membership operator with example.
- 4) Write algorithm for adding two numbers.
- 5) Differentiate between library and user defined functions.
- 6) What are the applications of Python?
- 7) Give the syntax for flowchart of while loop.
- 8) What is function? Give the syntax for defining function in python.
- 9) What is modular programming?
- 10) Give the use of type() with example.
- 11) What do you understand by global and local variables?
- 12) What is difference between else if an elif?

Q.2. Attempt the following.

(2x3=6)

- 1) Define a problem in terms of expected outcome and available inputs.
- 2) Write algorithm for calculating percentage of 5 subjects.
- 3) Draw flowchart for printing even numbers from 1 to 20.

OR

- 1) Draw a flowchart to find whether the number is positive, negative or zero.
- 2) Differentiate between algorithm and flowchart with example.
- 3) Write algorithm to find whether the number is prime or not.

Q.3. Attempt the following.

(2x3=6)

- 1) What are the key features of Python?
- 2) Explain different data types.
- 3) Write a python program for arithmetic operations using function.

OR

- 2) Explain different operators in Python.
- 2) Explain the difference between break and continue statement with program.
- 3) Write a python program for find sum, average, smallest and largest number among 3 numbers using function. *(Take input from User)*