Department of Computer Engineering

Subject: Scripting Language-Python (4330701)

Semester: 3rd

Assignment: 1(Unit 1 Fundamentals of Python)

- 1. Give the difference between Scripting Language and Programming Language.
- 2. List and explain features of Python.
- **3.** Write Application of python.
- 4. Explain basic structure of Python Program.
- 5. Explain keyword, identifier and variable.
- **6.** Explain datatype with example.
- 7. Explain input and print method of python.
- 8. Explain type casting with example.
- 9. List out operator and explain bitwise operator.

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Assignment: 2 (Unit 2 Control Flow Structures)

- 1. Explain python selection statements with flowchart, syntax and example.
- 2. Explain while loop with flowchart, syntax and example.
- 3. Explain for loop and nested for loop with flowchart, syntax and example.
- **4.** Explain switch case statement with flowchart, syntax and example.
- 5. Explain break, continue and pass statement with flowchart, syntax and example.

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Assignment: 3 (Unit 3 Lists, Tuples, Sets and Dictionaries)

- 1. Define List. Write Characteristics of list.
- 2. How to create a list. Explain append(),extend(),insert() and delete operations on list.
- 3. Write Characteristics of Tuple. Explain indexing and slicing in tuple.
- 4. Write Characteristics of Set.
- 5. How python set is modified? Or Explain add(),update(),remove() and discard() method of set.
- 6. Explain mathematical operations on Set(Union,Intersection,difference and symmetric difference)
- 7. Write Characteristics of Dictionary. Explain operations on dictionary (Accessing, changing, updating and removing)

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Assignment: 4 (Unit 4 Functions and Modules)

- 1. Define function. Why do we need it?
- 2. Give difference between User Define Function and Built in Function.
- **3.** What is Recursion? Explain with example.
- 4. What are modules in Python? Write Example of user defined module.
- 5. List out method of rand module. Explain any four with example.
- **6.** Explain any five mathematical functions of math module.
- 7. Explain main classes of Date and Time module with one Example.
- **8.** List out types of plots in Matplotlib. Explain any one with example.
- **9.** What is package? How to Create and import package. Explain with example.
- 10. Write down steps for PIP Installation.
- 11. Write a program using the function to find maximum from two numbers.
- 12. Create a user defined function which prints square of all the even numbers between 1 to 5
- **13.** Create a user defined function which will return the count of numbers divisible by 5 in range 1 to 20.

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Assignment: 5 (Unit 5 String Processing and File Handling)

- 1) Define String. How to create list of string.
- 2) How to use slicing operator for string. Explain with example.
- 3) Explain following function with example: isalnum(), isalpha (), isdigit(), isidentifier (), islower(), isupper(), and isspace()
- 4) Explain following function with example: endswith(), startswith(), find(), rfind(), count(),
- 5) List out Formatting function and explain any two.
- 6) Difference between Text files and Binary files:
- 7) Explain open() and close() for file with example.
- 8) Explain read(),readline() and readlines () for file with example.
- 9) Explain write(),append() and writelines () for file with example.