**Module 2: If else and loops**

B1. What is Python, Name some of the features of Python.

**Ans.** Python is a dynamic, high level, free open source and interpreted programming language. It supports object-oriented programming as well as procedural oriented programming.

Feature of Python:

1) Easy to code

2) Free and open source

3) Object oriented language

4) GUI programming support

5) High level programming

B3. Is python the right choice for web-based programming?

**Ans.** Python can be used not only for web development but also in many different fields like artificial intelligence, machine learning, I.O.T, etc.

B4. Why was the language called as Python?

**Ans.** Guido van Rossum wanted to give his programming language a name that was unique, mysterious, and short, and what better than naming it Python after Monty Python’s Flying Circus.

B6. What is the language from which Python has got its features or derived its features?

**Ans.** Python is derived from programming languages such as ABC, Modula 3, small talk, Algol-68. Van Rossum picked the name Python for the new language from a TV show, Monty Python's Flying Circus.

B8. Does python support switch or case statement in Python? If not, what is the reason for the same?

**Ans.** Python doesn't have a switch/case statement because of Unsatisfactory Proposals. Nobody has been able to suggest an implementation that works well with Python's syntax and established coding style.

B9. How Python is interpreted?

**Ans.** Python is an interpreted language, which means the source code of a Python program is converted into bytecode that is then executed by the Python virtual machine.

B12. How memory is managed in Python?

**Ans.** Python uses the dynamic memory allocation which is managed by the Heap data structure. Memory Heap holds the objects and other data structures that will be used in the program. Python memory manager manages the allocation or de-allocation of the heap memory space through the API functions.

B13. What is namespace in Python?

**Ans.** A namespace is a system that has a unique name for each and every object in Python. An object might be a variable or a method. Python itself maintains a namespace in the form of a Python dictionary.

B14. What is the purpose continue statement in python?

**Ans.** The continue statement instructs a loop to continue to the next iteration.