

KATHMANDU UNIVERSITY
End Semester Examination
March, 2025

Marks Scored:

Level : BSc

Year : I

Exam Roll No. :

Time: 30 mins.

Registration No.:

Course : DSMA 113

Semester : I

F. M. : 20

Date : 09 MAR 2025

SECTION "A"

[10 Q. × 1 = 10 marks]

Fill in the blank space(s) by writing the most appropriate word(s) or symbol(s).

1. Python is a(n) _____ programming language that is known for its simplicity and readability.
2. To install libraries in Python, you can use the _____ package manager.
3. The symbol used for commenting a single line of code in Python is _____.
4. Python's _____ operator checks for equality between two values.
5. The _____ statement is used to execute a block of code if a given condition is true, and another block if it is false.
6. The _____ loop in Python is used to iterate over a sequence such as a list or a range.
7. In Python, the _____ statement immediately terminates the current loop or function and returns control to the next statement after the loop or function.
8. A _____ is an unordered collection of unique items in Python.
9. In Python, a _____ is a collection of key-value pairs, which allows for fast lookups based on keys.
10. A _____ function is one that calls itself in its own definition.

SECTION "B"
[10 Q.× 1 = 10 marks]

Fill in the blank space(s), **DO NOT TICK**, by selecting the most appropriate answers from among the given ones.

11. A program must be converted to _____ language to be executed by a computer.
[Assembly Machine High level Very high level]
12. A _____ is a sequence of one or more characters used to provide a name for a given program element.
[Identifier Variable String Character]
13. The expression that results in an error is _____.
[int('10.8') float(10) int(10) float(10.8)]
14. _____ refers to built-in mathematical function.
[sqrt rhombus add sub]
15. _____ is the output of the "Apple is a Fruit"[7:9] code?
[Apple is Fruit None of the above]
16. If zoo = ["lion", "tiger"], _____ will be the output of zoo * 2?
[['lion'] ['lion', 'lion', 'tiger', 'tiger']
 ['lion', 'tiger', 'lion', 'tiger'] ['tiger']]
17. Assume d = {"Guido": "Python", "Dennis": "C"}. To obtain the number of entries in dictionary the _____ statement is used.
[d.size() len(d) size(d) d.len()]
18. A set is an _____ collection with no _____ items.
[unordered, duplicate ordered, unique
 unordered, unique ordered, duplicate]
19. The _____ functions remove the first element of the set.
[remove() delete() pop() truncate()]
20. _____ keyword is used to take the control to the beginning of the loop?
[exit break continue None of these]