**Python Programming - Objective Type Question Paper**

**Total Questions: 20**

**Each question carries 1 mark**

**1. List Comprehension**

**Q1:** What will be the output of the following Python code?

lst = [x\*\*2 for x in range(5)]

print(lst)

A) [0, 1, 4, 9, 16]  
B) [1, 4, 9, 16, 25]  
C) [0, 2, 4, 6, 8]  
D) [0, 1, 2, 3, 4]

✅ **Answer:** A) [0, 1, 4, 9, 16]

**2. Dictionary Comprehension**

**Q2:** What is the correct syntax for dictionary comprehension?

A) {key:value for key in range(5)}  
B) {x: x\*\*2 for x in range(5)}  
C) dict(key=value for key in range(5))  
D) [x: x\*\*2 for x in range(5)]

✅ **Answer:** B) {x: x\*\*2 for x in range(5)}

**3. Regular Expressions (Regex)**

**Q3:** What does the re.match() function return if there is no match?

A) None  
B) False  
C) 0  
D) Error

✅ **Answer:** A) None

**Q4:** Which regex pattern matches any digit in Python?

A) [0-9]  
B) \d  
C) [A-Za-z]  
D) Both A and B

✅ **Answer:** D) Both A and B

**4. Format Operators**

**Q5:** What will be the output of the following code?

name = "Alice"

age = 25

print("%s is %d years old." % (name, age))

A) Alice is 25 years old.  
B) %s is %d years old.  
C) Error  
D) Alice 25 years old.

✅ **Answer:** A) Alice is 25 years old.

**5. Hashing**

**Q6:** Which of the following data types can be used as a dictionary key?

A) List  
B) Set  
C) Tuple  
D) Dictionary

✅ **Answer:** C) Tuple

**6. Map, Filter, Reduce**

**Q7:** What does the map() function return?

A) List  
B) Set  
C) Dictionary  
D) Map object (iterator)

✅ **Answer:** D) Map object (iterator)

**Q8:** What does the filter() function do?

A) Modifies each element in a sequence  
B) Returns elements based on a condition  
C) Merges two lists  
D) Reduces a list to a single value

✅ **Answer:** B) Returns elements based on a condition

**Q9:** Which module is required to use reduce() function in Python?

A) math  
B) functools  
C) collections  
D) sys

✅ **Answer:** B) functools

**7. Modules & Sub Modules**

**Q10:** Which of the following is the correct way to import a submodule?

A) import math.sqrt  
B) from math import sqrt  
C) import sqrt from math  
D) math.import(sqrt)

✅ **Answer:** B) from math import sqrt

**8. Python Modules**

**Math, OS, date, time, datetime, random, Statistics & sys modules**

**Q11:** What does math.floor(4.8) return?

A) 5  
B) 4.8  
C) 4  
D) None

✅ **Answer:** C) 4

**Q12:** What does os.getcwd() return?

A) Current working directory  
B) OS version  
C) List of files in a directory  
D) None of the above

✅ **Answer:** A) Current working directory

**Q13:** Which module provides random number generation in Python?

A) sys  
B) math  
C) random  
D) os

✅ **Answer:** C) random

**Q14:** Which function from datetime module returns the current date and time?

A) datetime.date.today()  
B) datetime.datetime.now()  
C) time.time()  
D) date.today()

✅ **Answer:** B) datetime.datetime.now()

**Q15:** What does sys.exit() do in Python?

A) Exits from the script  
B) Restarts the script  
C) Prints an error message  
D) Deletes the script file

✅ **Answer:** A) Exits from the script

**9. Installing External Modules**

**Q16:** What is the command to install an external Python module using pip?

A) install module\_name  
B) python install module\_name  
C) pip install module\_name  
D) module install module\_name

✅ **Answer:** C) pip install module\_name

**Q17:** What does the command pip list do?

A) Lists all installed Python modules  
B) Lists only external modules  
C) Lists all Python files in the directory  
D) None of the above

✅ **Answer:** A) Lists all installed Python modules

**10. Creating Custom Modules**

**Q18:** What is the correct file extension for a Python module?

A) .mod  
B) .py  
C) .module  
D) .txt

✅ **Answer:** B) .py

**Q19:** What is the correct way to use a function hello() from a custom module my\_module.py?

A) import hello from my\_module  
B) import my\_module.hello  
C) from my\_module import hello  
D) my\_module.import hello

✅ **Answer:** C) from my\_module import hello

**Q20:** If a module is executed as a script, which special variable is set to "\_\_main\_\_"?

A) \_\_module\_\_  
B) \_\_name\_\_  
C) \_\_main\_script\_\_  
D) \_\_file\_\_

✅ **Answer:** B) \_\_name\_\_