

Plot No. 2, Knowledge Park-III, Greater Noida (U.P.) –201306
POST GRADUATE DIPLOMA IN MANAGEMENT (2024-26)
MID-TERM EXAMINATION (TERM -III)

Subject Name: **Hands-on Python Tools Workshop**
Sub. Code: **PG33**

Time: **01.00 hrs**
Max Marks: **20**

Note: 1. All questions are compulsory.

Q1. What will be the output of the following code?

```
def func():  
    x = 10  
    y = 20  
    return x + y  
print(func())
```

- A) 30 B) 10 C) IndentationError D) SyntaxError

Q2. Which of the following is NOT a correct way to use comments in Python?

A)

```
# This is a comment  
print("Hello")
```

B)

```
"""  
This is a comment  
"""  
print("Hello")
```

C)

```
"""This is a comment"""  
print("Hello")
```

D)

```
/ This is a comment /  
print("Hello")
```

Q3. Which of the following correctly defines a Python docstring?

- A) "This is a docstring" B) """This is a docstring"""
C) 'This is a docstring' D) # This is a docstring

Q4. Which of the following statements about Python indentation is false?

- A) Indentation replaces curly braces {} used in other languages
B) All statements in a block must be indented at the same level
C) Mixing spaces and tabs in indentation can cause errors
D) Python allows inconsistent indentation within the same block

Q5. What will be the output of the following code?

```
x = 10  
y = 2  
print(x // y)
```

- A) 5.0 B) 5 C) 5.5 D) Error

Q6. What will be the output of the following?

```
a = 5
b = 3
print(a % b)
```

- A) 2 B) 1.5 C) 5 D) 3

Q7. Which of the following is not a valid way to define a float in Python?

- A) x = 5.0 B) x = float(5) C) x = 4e-2 D) x = int(4.5)

Q8. What will be the output of the following?

```
s = "Python"
print(s[-3])
```

- A) t B) h C) o D) n

Q9. Which of the following is not a valid string operation?

- A) "Hello" + "World" B) "Python" * 3 C) "abc" - "a" D) len("Hello")

Q10. What will be the output of the following?

```
s = "hello"
s[0] = "H"
print(s)
```

- A) "Hello" B) "hello" C) H D) Error

Q11. What will be the output of the following?

```
lst1 = [1, 2, 3]
lst2 = lst1
lst2.append(4)
print(lst1)
```

- A) [1, 2, 3] B) [1, 2, 3, 4] C) Error D) None

Q12. Which of the following correctly creates a copy of a list that is independent of the original?

- A) lst2 = lst1 B) lst2 = lst1.copy() C) lst2 = list(lst1) D) Both B and C

Q13. What will be the result of the following code?

```
lst = [10, 20, 30, 40, 50]
del lst[1:4]
print(lst)
```

- A) [10, 20, 30, 40, 50] B) [10, 50] C) [10, 30, 50] D) [10, 20, 50]

Q14. What will be the output of the following?

```
lst = [1, [2, 3], 4]
lst[1].append(5)
print(lst)
```

- A) [1, [2, 3, 5], 4] B) [1, [2, 3], 4, 5] C) [1, 2, 3, 5, 4] D) Error

Q15. What will be the result of the following?

```
t1 = (1, 2)
t2 = (3, 4)
print(t1 + t2)
```

- A) (1, 2, 3, 4) B) (1, 2, (3, 4)) C) (4, 6) D) Error

Q16. What will be the output of the following code?

```
t = (1, 2, 3, 4)
t[2] = 10
print(t)
```

- A) (1, 2, 10, 4) B) (1, 2, 3, 4, 10) C) Error D) (1, 2, 3, 4)

Q17. Which of the following is not a valid dictionary key in Python?

- A) 5 B) 3.14 C) [1, 2, 3] D) ("x", "y")

Q18. What will be the output?

```
x = 0
if x == False:
    print("A")
elif not x:
    print("B")
else:
    print("C")
```

- A) A B) B C) A B D) C

Q19. How many times does the loop execute?

```
i = 1
while i < 10:
    i *= 2
print(i)
```

- A) 3 B) 4 C) 5 D) 6

Q20. What will be the output of the following code?

```
def func(a=3, b=5, c=10):
    return a + b + c
print(func(2, c=8))
```

- A) 15 B) 17 C) 18 D) Error

Q21 Jupyter Notebook is mainly used for:

- a) Writing Python scripts b) Running interactive Python code
c) Creating and sharing documents with code, text, and visualization d) All of the above

Q22 What is Markdown used for in Jupyter Notebook?

- a) Writing formatted text b) Running Python code
c) Managing data files d) Creating plots

Q23 Which of the following is NOT a cell type in Jupyter Notebook?

- a) Code b) Text c) Markdown d) Raw

Q24 Which symbol is used for comments in Python?

- a) // b) /* */ c) # d) --

Q25 Which of the following is a valid variable name in Python?

- a) 2var b) var_1 c) var-1 d) \$var

26 What is the output of 5 / 2 in Python?

- a) 2 b) 2.5 c) 2.0 d) 3

Q27 Which data type is mutable in Python?

- a) Tuple b) List c) String d) Integer

Q28 What is the output of `3 ** 2` in Python?

- a) 6 b) 9 c) 8 d) 3

Q29 Which of the following is the correct way to declare a multi-line string in Python?

- a) "This is a multi-line string" b) 'This is a multi-line string'
c) """This is a multi-line string""" d) //This is a multi-line string//

Q30 Which of the following statements assigns the integer 10 to a variable correctly?

- a) `x = 10` b) `int x = 10` c) `int(x) = 10` d) `x := 10`

Q31 Which operator is used for exponentiation in Python?

- a) `^` b) `**` c) `exp()` d) `//`

Q32 Which of the following Python expressions will evaluate to True?

- a) `bool("False")` b) `bool(0)` c) `bool(None)` d) `bool([])`

Q33 Which of the following statements assigns a string value to a variable in Python?

- a) `x = "Hello"` b) `string x = "Hello"` c) `x := "Hello"` d) `x <- "Hello"`

Q34 What will be the output of `10 // 3` in Python?

- a) 3.33 b) 3 c) 4 d) Error

Q35 Which of the following expressions correctly performs exponentiation?

- a) `2^3` b) `2**3` c) `2*3` d) `pow(2,3)`

Q36 Which of the following operators is used for floor division in Python?

- a) `/` b) `%` c) `//` d) `**`

Q37 What will be the output of `print("Python"[1])`?

- a) P b) y c) t d) h

Q38 What is the correct way to define a function with two parameters?

- a) `def func(x,y):` b) `function func(x,y)` c) `def func(x y)` d) `func def(x,y)`

Q39 What does `len("Python")` return?

- a) 5 b) 6 c) 7 d) Error

Q40 What will be the output of the following Python code?

`print(10 % 3)`

- a) 3 b) 1 c) 0 d) 10