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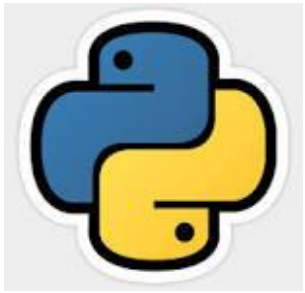

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1. What is explicit typecasting in Python?

A. Python converts type automatically

B. Programmer manually converts type using functions

C. Only happens for numbers

D. Only happens for strings

Answer: B) Programmer manually converts type using functions

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2. Program link with other parts of program or connectors in flowchart are represented by__

a) rectangle
b) parallelogram
c) circle
d) oval

Answer: c) circle

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3. Which keyword is used for function in Python language?

a) Function
b) def
c) Fun
d) Define3

Answer: b) def

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4. What is the return type of the id() function in python?

a) int
b) float
c) bool
d) dict

Answer: a) int

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5. What error occurs when you execute the following python code snippet?

```
apple=mango
```

a) Syntax errror
b) Name error
c) Value error
d) Type error

Answer: b) Name error

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6. Which of the following functions can help us to find the version of python that we are currently working on?

a) sys.version(1)
b) sys.version(0)
c) sys.version()
d) sys.version

Answer: d) sys.version

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7. What is the problem with the following statement?

100=grade

A) 100 is not a reasonable grade

B) 100 should be in quotes

C) Data types don’t mactch

D) Value on the left must be a variable name

Answer: D) Value on the left must be a variable name

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8. What is the order of precedence in python?

a) Exponential, Parentheses, Multiplication, Division, Addition, Subtraction

b) Exponential, Parentheses, Division, Multiplication, Addition, Subtraction

c) Parentheses, Exponential, Multiplication, Addition, Division, Subtraction

d) Parentheses, Exponential, Multiplication, Division, Addition, Subtraction

Answer: d) Parentheses, Exponential, Multiplication, Division, Addition, Subtraction

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9. What will be the output of the following Python code snippet if x=1?

```
X<<2
```

a) 4
b) 2
c) 1
d) 8

Answer: a) 4

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10. What does pip stand for python?

a) Pip Installs Python
b) Pip Installs Packages
c) Preferred Installer Program
d) All of the mentioned

Answer: c) Preferred Installer Program

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11. Which of the following is not a keyword in python language?

A) True
B) and
C) switch
D) def

Answer: C) switch

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12. What are the values of the following Python expressions?

```
print(2**(3**2))
print((2**3)**2)
print(2**3**2)
```

a) 512, 64, 512
b) 512, 512, 512
c) 64, 512, 64
d) 64, 64, 64

Answer: a) 512, 64, 512

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13. Which of the following statements is used to create an empty set in Python?

a) ( )
b) [ ]
c) { }
d) set()

Answer: d) set()

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14. To add a new element to a list we use which Python command?

a) list1.addEnd(5)
b) list1.addLast(5)
c) list1.append(5)
d) list1.add(5)

Answer: c) list1.append(5)

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15. Which of the following Python statements will result in the output: 6?

```
A = [[1, 2, 3],
     [4, 5, 6],
     [7, 8, 9]]
```

a) A[2][1]
b) A[1][2]
c) A[3][2]
d) A[2][3]

Answer: b) A[1][2]

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16. Which keywords are used for conditional branching?

a) For
b) if
c) when
d) Select

Answer: b) if

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17. What is the default return value of the function with a return statement?

a) 0
b) None
c) Null
d) error

Answer: b) None

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18. What is the output of the set ([1,2,2,3])?

a) [1,2,3]
B) (1,2,3)
C) {1,2,3}
D) error

Answer: C) {1,2,3}

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19. Which method removes an item from a dictionary?

a) delete ()
b) pop ()
c) remove ()
d) discard ()

Answer: b) pop ()

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20. How do you import a module?

a) Include modules
b) Use module
c) import module
d) module

Answer: c) import module

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21. What will be printed by the following code when it executes?

```
sum = 0
values = [1,3,5,7]
for number in values:
    sum = sum + number
print(sum)
```

a) 4
b) 0
c) 7
d) 16

Answer: d) 16

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22. What does the //= operator do?

A. Divides and assigns (float division)

B. Performs floor division and assigns

C. Modulus and assigns

D. Exponent and assigns

Answer: B) Performs floor division and assigns

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23. What does the range() function do in Python?

A. Creates a list of numbers automatically
B. Creates a sequence of numbers
C. Converts string to int
D. Loops infinitely

Answer: B) Creates a sequence of numbers

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24.What will be the output of this program?

```
print(int(6 == 6.0) * 3 + 4 % 5)
```

a) 22
b) 18
c) 20
d) 7

Answer: d) 7

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25. The keys of a dictionary must be of _____types.

a) Integer
b) mutable
c) immutable
d) All of thess

Answer: c) immutable

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26.Determine the output.

```
for i in range(20,30,10):
        j=i/2
        print(j)
```

a) 10 15
b) 10.0 15.0
c) 10.0
d) None of these

Answer: C) 10.0

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27. What value does the following expression evaluate to?

```
print(5+8*((3*5)-9)/10)
```

a) 9.0
b) 9.8
c) 10
d)10.0

Answer: b) 9.8

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28. What will be the output of the following expression?

```
a=2
b=8
print(a|b)
print(a>>1)
```

a) 10 0
b) 2 2
c) 10 2
d) 10 1

Answer: a) 10 0

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29. What will be the output after the following statements?

```
a=0
b=3
while a+b<8:
        a+=1
        print(a,end=' ')
```

a) 0 1 2 3 4
b) 1 2 3 4 5 6
c) 1 2 3 4 5
d) None of these

Answer: c) 1 2 3 4 5

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30. What is the output of the following code?

```
a=15
b=6
print(a and b)
print(a or b)
```

a) True True
b) False False
c) 6 15
d) 15 6

Answer: c) 6 15

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31. Which module is used in Python to handle command line arguments?

A. Os
B. sys
C. argparse
D. command

Answer: B) sys

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32. What is the output of the following code?

```
x = 10
def fun():
    x = 5
    print(x)
fun()
print(x)
```

A) 5 10
B) 5 5
C) 10 10
D) error

Answer: A) 5 10

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33.How can you define a default argument in a Python function?.

A) def func(x=5):
B) def func(x, default=5):
C) def func(x, y=default):
D) func(x=5)

Answer: A) def func(x=5):

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34.Which function is used to get the ASCII value of a character in Python?

A) ascii()
B) ord()
C) chr()
D) get_ascii()

Answer: B) ord()

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35. What will the output be?

```
for i in range(5, 0, -1):
    print(i, end=" ")
```

A) 1 2 3 4 5
B) 5 4 3 2 1
C) 4 3 2 1
D) 5 4 3 2

Answer: B) 5 4 3 2 1

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36. A function used for writing data in the binary format.

a) write
b) output
c) send
d) dump

Answer: d) dump

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37. What will be the output of the following ?

```
Import numpy as np
a=np.array([2,3,4,5])
b=np.arrange(4)
print(a+b)
```

a) [2,3,4,5]
b) [3,4,5,6]
c) [1,2,3,4]
d) [2,4,6,8]

Answer: d) [2,4,6,8]

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38.What is the output?

```
def calc(x):
    r=3*x**2
    return r
print(calc(4))
```

a) Error
b) 144
c) 48
d) 40

Answer: c) 48

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39. Which of the following item are present in the function header?

(a) Function name
(b) parameter list
(c) Both a and b
(d) return value

Answer: c) Both a and b

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40. A detailed flow chart is called as.....

(a) macro
(b) micro
(c) stack
(d) union

Answer: (b) micro

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41. When we open file in append mode the file pointer is as the …… of the file.

(a) Anywhere in between the file

(b) Beginning

(c) end

(d) second line of the file

Answer: c) end

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42. What is the output of the following code?

```
Import numpy as np
a=np.array([1,2,3,5,8])
b=np.array([0,3,4,2,1])
c=a+b
c=c*a
print(c[2])
```

(a) 12
(b) 10
(c) 28
(d) 21

Answer: (d) 21

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43. which attribute is used to find the date type of numpy array?

(a) Objects.type(array)
(b) Numpy(type)
(c) dtype
(d) type(array)

Answer: c) dtype

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44. What is the output of the following code?

```
Import numpy as np
a=np.array([[1,2,3],[4,5,6]])
print(a.shape)
```

(a) (2,3)
(b) (3,2)
(c) (1,1)
(d) None of the option

Answer: (a) (2,3)

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45. What type of data is: arr=[(1,1),(2,2),(3,3)]

(a) Tuples of list
(b) Array of tuples
(c) Invalid type
(d) List of tuples

Answer: (d) List of tuples

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46.What will the output of the following code snipped?

```
from  math import *
a= 2.19
b=3.999999
c =-3.30
print(int(a),floor(b),ceil(c),fabs(c))
```

(a)3 4 -3 3

(b)2 3 -3 3.3

(c)2 3 -3 3

(d)2.9 3 -3 3.3

Answer: b) 2 3 -3 3.3

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47. which of the following function takes two arguments?

(a) Both of the above
(b) Load()
(c) None of the above
(d) Dump()

.

Answer: (d) Dump()

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48. How do you give an alias to a module while importing?

A. import math as m
B. import math m
C. import math -> m
D. import math alias m

Answer: A) import math as m

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49. Which library is used for numerical computing?

a) pandas
(b) numpy
(c) matplotlib
(d) seaborn

Answer: (b) numpy

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50. What is the purpose of dir() function in Python?

A. Deletes a variable
B. Lists attributes and methods of an object
C. Converts a string to list
D. Returns the type of object

Answer: B) Lists attributes and methods of an object