

Python

1. Who developed Python Programming Language?
a) Wick van Rossum
b) Rasmus Lerdorf
c) Guido van Rossum
d) Niene Stom
Answer: c
Explanation: Python language is designed by a Dutch programmer Guido van Rossum in the
Netherlands.
2. Which type of Programming does Python support?
a) object-oriented programming
b) structured programming
c) functional programming
d) all of the mentioned
Answer: d
Explanation: Python is an interpreted programming language, which supports object-oriented
structured, and functional programming.
3. Is Python case sensitive when dealing with identifiers?
a) no
b) yes
c) machine dependent
d) none of the mentioned
Answer: b

Explanation: Case is always significant while dealing with identifiers in python.



4. Which of the following is the correct extension of the Python file?
a) .python
b) .pl
c) .py
d) .p
Answer: c
Explanation: '.py' is the correct extension of the Python file. Python programs can be written
in any text editor. To save these programs we need to save in files with file extension '.py'.
5. Is Python code compiled or interpreted?
a) Python code is both compiled and interpreted
b) Python code is neither compiled nor interpreted
c) Python code is only compiled
d) Python code is only interpreted
Answer: a
Explanation: Many languages have been implemented using both compilers and interpreters,
including C, Pascal, and Python.
6. All keywords in Python are in
a) Capitalized
b) lower case
c) UPPER CASE
d) None of the mentioned
Answer: d
Explanation: True, False and None are capitalized while the others are in lower case.



7. What will be the value of the following Python expression?

4 + 3 % 5	
a) 7	
b) 2	
c) 4	
d) 1	
Answer: a	
Explanation: The order of precedence is: %, +. Hence the expression above, on simplification	n
results in $4 + 3 = 7$. Hence the result is 7.	
8. Which of the following is used to define a block of code in Python language?	
a) Indentation	
b) Key	
c) Brackets	
d) All of the mentioned	
Answer: a	
Explanation: In Python, to define a block of code we use indentation. Indentation refers to	
whitespaces at the beginning of the line.	
9. Which keyword is used for function in Python language?	
a) Function	
b) def	
c) Fun	
d) Define	
Answer: b	
Explanation: The def keyword is used to create, (or define) a function in python.	



- 10. Which of the following character is used to give single-line comments in Python?
- a) //
- b) #
- c)!
- d) /*

Answer: b

Explanation: To write single-line comments in Python use the Hash character (#) at the beginning of the line. It is also called number sign or pound sign. To write multi-line comments, close the text between triple quotes.

Example: "" comment text ""

11. What will be the output of the following Python code?

```
i = 1
while True:
    if i%3 == 0:
        break
    print(i)

    i += 1
```

- a) 1 2 3
- b) error
- c) 12
- d) none of the mentioned

Answer: b

Explanation: SyntaxError, there shouldn't be a space between + and = in +=.



- 12. 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

Explanation: The function sys.version can help us to find the version of python that we are currently working on. It also contains information on the build number and compiler used. For example, 3.5.2, 2.7.3 etc. this function also returns the current date, time, bits etc along with the version.

13. Python supports the creation of anonymous functions at runtime, using a construct called

- a) pi
- b) anonymous
- c) lambda
- d) none of the mentioned

Answer: c

Explanation: Python supports the creation of anonymous functions (i.e. functions that are not bound to a name) at runtime, using a construct called lambda. Lambda functions are restricted to a single expression. They can be used wherever normal functions can be used.

- 14. 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, Division, Subtraction, Addition
- d) Parentheses, Exponential, Multiplication, Division, Addition, Subtraction



Answer:	d

Explanation: For order of precedence, just remember this PEMDAS (similar to BODMAS).

15. 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

Explanation: The binary form of 1 is 0001. The expression x << 2 implies we are performing bitwise left shift on x. This shift yields the value: 0100, which is the binary form of the number 4.

- 16. 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

Explanation: pip is a package manager for python. Which is also called Preferred Installer Program.

- 17. Which of the following is true for variable names in Python?
- a) underscore and ampersand are the only two special characters allowed
- b) unlimited length
- c) all private members must have leading and trailing underscores
- d) none of the mentioned



Answer: b

Explanation: Variable names can be of any length.

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

```
2**(3**2)
(2**3)**2
2**3**2
a) 512, 64, 512
b) 512, 512, 512
c) 64, 512, 64
d) 64, 64, 64
```

Answer: a

Explanation: Expression 1 is evaluated as: 2**9, which is equal to 512. Expression 2 is evaluated as 8**2, which is equal to 64. The last expression is evaluated as 2**(3**2). This is because the associativity of ** operator is from right to left. Hence the result of the third expression is 512.

19. Which of the following is the truncation division operator in Python?

a) |

b) //

c) /

d) %

Answer: b

Explanation: // is the operator for truncation division. It is called so because it returns only the integer part of the quotient, truncating the decimal part. For example: 20//3 = 6.

20. What will be the output of the following Python code?

```
l=[1, 0, 2, 0, 'hello', ", []]
list(filter(bool, l))
a) [1, 0, 2, 'hello', ", []]
b) Error
```



```
c) [1, 2, 'hello']
```

d) [1, 0, 2, 0, 'hello', ", []]

Answer: c

Explanation: The code shown above returns a new list containing only those elements of the list I which do not amount to zero. Hence the output is: [1, 2, 'hello'].

- 21. Which of the following functions is a built-in function in python?
- a) factorial()
- b) print()
- c) seed()
- d) sqrt()

Answer: b

Explanation: The function seed is a function which is present in the random module. The functions sqrt and factorial are a part of the math module. The print function is a built-in function which prints a value directly to the system output.

- 22. Which of the following is the use of id() function in python?
- a) Every object doesn't have a unique id
- b) Id returns the identity of the object
- c) All of the mentioned
- d) None of the mentioned

Answer: b

Explanation: Each object in Python has a unique id. The id() function returns the object's id.

23. The following python program can work with _____ parameters.

```
def f(x):
    def f1(*args, **kwargs):
        print("Sanfoundry")
        return x(*args, **kwargs)
```



return fl

- a) any number of
- b) 0
- c) 1
- d) 2

Answer: a

Explanation: The code shown above shows a general decorator which can work with any number of arguments.

24. What will be the output of the following Python function?

min(max(False, -3, -4), 2, 7)

- a) -4
- b) -3
- c) 2
- d) False

Answer: d

Explanation: The function max() is being used to find the maximum value from among -3, -4 and false. Since false amounts to the value zero, hence we are left with min(0, 2, 7) Hence the output is 0 (false).

- 25. Which of the following is not a core data type in Python programming?
- a) Tuples
- b) Lists
- c) Class
- d) Dictionary

Answer: c

Explanation: Class is a user-defined data type.

26. What will be the output of the following Python expression if x=56.236?



print("%.2f"%x)

- a) 56.236
- b) 56.23
- c) 56.0000
- d) 56.24

Answer: d

Explanation: The expression shown above rounds off the given number to the number of decimal places specified. Since the expression given specifies rounding off to two decimal places, the output of this expression will be 56.24. Had the value been x=56.234 (last digit being any number less than 5), the output would have been 56.23.

- 27. Which of these is the definition for packages in Python?
- a) A set of main modules
- b) A folder of python modules
- c) A number of files containing Python definitions and statements
- d) A set of programs making use of Python modules

Answer: b

Explanation: A folder of python programs is called as a package of modules.

28. What will be the output of the following Python function?

len(["hello",2, 4, 6])

- a) Error
- b) 6
- c) 4
- d) 3

Answer: c

Explanation: The function len() returns the length of the number of elements in the iterable. Therefore the output of the function shown above is 4.



29. What will be the output of the following Python code?

```
x = 'abcd'
for i in x:
    print(i.upper())
a) aBCD

b) a b c d
c) error
```

Answer: d

d) ABCD

Explanation: The instance of the string returned by upper() is being printed.

- 30. What is the order of namespaces in which Python looks for an identifier?
- a) Python first searches the built-in namespace, then the global namespace and finally the local namespace
- b) Python first searches the built-in namespace, then the local namespace and finally the global namespace
- c) Python first searches the local namespace, then the global namespace and finally the built-in namespace
- d) Python first searches the global namespace, then the local namespace and finally the built-in namespace

Answer: c

Explanation: Python first searches for the local, then the global and finally the built-in namespace.

31. What will be the output of the following Python code snippet?

```
for i in [1, 2, 3, 4][::-1]:
    print (i)
```



a) 4 3 2 1
b) error
c) 1 2 3 4
d) none of the mentioned
Answer: a
Explanation: [::-1] reverses the list.
32. What will be the output of the following Python statement?
1. >>>"a"+"bc"
a) bc
b) abc
c) a
d) bca
Answer: b
Explanation: + operator is concatenation operator.
33. Which function is called when the following Python program is executed?
f = foo()
format(f)
a) str()
b) format()
c)str()
d)format()
Answer: c
Explanation: Both str(f) and format(f) call fstr().



34. Which one of the following is not a keyword in Python language? a) pass b) eval c) assert d) nonlocal Answer: b Explanation: eval can be used as a variable. 35. What will be the output of the following Python code? 1. class tester: 2. definit(self, id): 3. self.id = str(id) 4. id="224" 5. 6. >>>tcmp = tester(12) 7. >>>print(temp.id) a) 12 b) 224 c) None d) Error Answer: a Explanation: Id in this case will be the attribute of the instance. 36. What will be the output of the following Python program? def foo(x): x[0] = ['def'] x111 = ['abe']	"good
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4. id="224" 5. 6. >>>temp = tester(12) 7. >>>print(temp.id) a) 12 b) 224 c) None d) Error Answer: a Explanation: Id in this case will be the attribute of the instance. 36. What will be the output of the following Python program? def foo(x): x[0] = ['def']	
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def foo(x): $x[0] = ['def']$	36. What will be the output of the following Python program?
x[0] = ['def']	30. What will be the output of the following I ython program:
x[0] = ['def']	def foo(x):
	x[1] = ['abc']
return id(x)	

q = ['abc', 'def']



print(id(q) == foo(q))

- a) Error
- b) None
- c) False
- d) True

Answer: d

Explanation: The same object is modified in the function.

- 37. Which module in the python standard library parses options received from the command line?
- a) getarg
- b) getopt
- c) main
- d) os

Answer: b

Explanation: getopt parses options received from the command line.

38. What will be the output of the following Python program?

```
z=set('abc')
z.add('san')
z.update(set(['p', 'q']))
z
a) {'a', 'c', 'c', 'p', 'q', 's', 'a', 'n'}
b) {'abc', 'p', 'q', 'san'}
c) {'a', 'b', 'c', 'p', 'q', 'san'}
d) {'a', 'b', 'c', ['p', 'q'], 'san}
```

Answer: c

Explanation: The code shown first adds the element 'san' to the set z. The set z is then



updated and two more elements, namely, 'p' and 'q' are added to it. Hence the output is: {'a', 'b', 'c', 'p', 'q', 'san'}

- 39. What arithmetic operators cannot be used with strings in Python?
- a) *
- b) –
- c) +
- d) All of the mentioned

Answer: b

Explanation: + is used to concatenate and * is used to multiply strings.

40. What will be the output of the following Python code?

print("abc. DEF".capitalize())

- a) Abc. def
- b) abc. def
- c) Abc. Def
- d) ABC. DEF

Answer: a

Explanation: The first letter of the string is converted to uppercase and the others are converted to lowercase.