Exam Key

* 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 *
* C D A C E B C A B D A C E C C E D E D B D C B A *
* *
* 25 26 27 28 29 30 *
* E A B C A D *

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* Exam Key
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* 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 *
* C D A C E B C A B D A C E C C E D E D B D C B A *
* *
* 25 26 27 28 29 30 *
* E A B C A D *

********************************************************************************
A = 9
B = 3
print(B + A % 4)  # Line 1
print(A / 2 * B)  # Line 2
C = 2
C = A + - B ** C - 1
print(C)  # Line 3
D = 10
D *= B + 2 * A
print(D)  # Line 4

01. Which of the following statements about the Python code labeled "Line 1" in Figure 1 is correct?
   A) It will display 0 when the program is executed.
   B) It will display 3 when the program is executed.
   C) It will display 4 when the program is executed.
   D) It will display 5 when the program is executed.
   E) None of the above.

02. Which of the following statements about the Python code labeled "Line 2" in Figure 1 is correct?
   A) It will display 1 when the program is executed.
   B) It will display 1.5 when the program is executed.
   C) It will display 12 when the program is executed.
   D) It will display 13.5 when the program is executed.
   E) None of the above.

03. Which of the following statements about the Python code labeled "Line 3" in Figure 1 is correct?
   A) It will display -1 when the program is executed.
   B) It will display 6 when the program is executed.
   C) It will display 17 when the program is executed.
   D) It will display 35 when the program is executed.
   E) None of the above.

04. Which of the following statements about the Python code labeled "Line 4" in Figure 1 is correct?
   A) It will display 21 when the program is executed.
   B) It will display 48 when the program is executed.
   C) It will display 210 when the program is executed.
   D) It will display 450 when the program is executed.
   E) None of the above.

05. Which of the following statements is not valid Python?
   A) print(float("25"))
   B) print(str(+63))
   C) print(int("72"))
   D) print(str(-3.27e+5))
   E) print(int("1.5e-8"))
import math

A = 7.2
B = 13.5
C = 9
D = -6

E = A < 9.1 and 2.9 > B
F = 4 > C or D < -3

print( E, F )  # Line 1

G = 20 > 2*C > 10
H = 3*A > 2*B and C > math.sqrt(D)

print( G, H )  # Line 2

06. Which of the following statements about the Python code labeled "Line 1" in Figure 2 is correct?

A) It will display False False when the program is executed.
B) It will display False True when the program is executed.
C) It will display True False when the program is executed.
D) It will display True True when the program is executed.
E) None of the above.

07. Which of the following statements about the Python code labeled "Line 2" in Figure 2 is correct?

A) It will display False False when the program is executed.
B) It will display False True when the program is executed.
C) It will display True False when the program is executed.
D) It will display True True when the program is executed.
E) None of the above.

08. Which of the following statements is not correct?

A) The integer value -1 is equivalent to the Boolean value False.
B) The string value "25" is equivalent to the Boolean value True.
C) The integer value 0 is equivalent to the Boolean value False.
D) The string value "" is equivalent to the Boolean value False.
E) The integer value 1 is equivalent to the Boolean value True.

09. What will be displayed when the following Python statement is executed?

print( int( 2.7 * 4.8 ) )

A) 8
B) 12
C) 13
D) 15
E) None of the above.
A, B, C = 0, 0, 0
D = 11
while D >= 0:
    A += 1
    if D%4 == 0:
        B += 1
    else:
        C += 1
    D -= 3

print( A )    # Line 1  
print( B )    # Line 2  
print( C )    # Line 3  
print( D )    # Line 4

10. Which of the following statements about the Python code labeled "Line 1" in Figure 3 is correct?

A) It will display 1 when the program is executed.
B) It will display 2 when the program is executed.
C) It will display 3 when the program is executed.
D) It will display 4 when the program is executed.
E) None of the above.

11. Which of the following statements about the Python code labeled "Line 2" in Figure 3 is correct?

A) It will display 1 when the program is executed.
B) It will display 2 when the program is executed.
C) It will display 3 when the program is executed.
D) It will display 4 when the program is executed.
E) None of the above.

12. Which of the following statements about the Python code labeled "Line 3" in Figure 3 is correct?

A) It will display 1 when the program is executed.
B) It will display 2 when the program is executed.
C) It will display 3 when the program is executed.
D) It will display 4 when the program is executed.
E) None of the above.

13. Which of the following statements about the Python code labeled "Line 4" in Figure 3 is correct?

A) It will display 1 when the program is executed.
B) It will display 2 when the program is executed.
C) It will display 3 when the program is executed.
D) It will display 4 when the program is executed.
E) None of the above.
B, C, D = 0, 0, 0

for A in range( 9 ):

    if A%3 == 0:
        B += 1
    if A%2 == 0:
        C += 1
    else:
        D += 1

print( A )    # Line 1
print( B )    # Line 2
print( C )    # Line 3
print( D )    # Line 4

14. Which of the following statements about the Python code labeled "Line 1" in Figure 4 is correct?

A) It will display 0 when the program is executed.
B) It will display 7 when the program is executed.
C) It will display 8 when the program is executed.
D) It will display 9 when the program is executed.
E) None of the above.

15. Which of the following statements about the Python code labeled "Line 2" in Figure 4 is correct?

A) It will display 1 when the program is executed.
B) It will display 2 when the program is executed.
C) It will display 3 when the program is executed.
D) It will display 4 when the program is executed.
E) None of the above.

16. Which of the following statements about the Python code labeled "Line 3" in Figure 4 is correct?

A) It will display 1 when the program is executed.
B) It will display 2 when the program is executed.
C) It will display 3 when the program is executed.
D) It will display 4 when the program is executed.
E) None of the above.

17. Which of the following statements about the Python code labeled "Line 4" in Figure 4 is correct?

A) It will display 1 when the program is executed.
B) It will display 2 when the program is executed.
C) It will display 3 when the program is executed.
D) It will display 4 when the program is executed.
E) None of the above.
A, B, C = 0, 0, 0

for D in range(1, 12, 2):
    A += 1
    if D//3*3 == D:
        continue
    if D//6*6 == D:
        break
    B += 1
else:
    C = D

print(A)    # Line 1
print(B)    # Line 2
print(C)    # Line 3

18. Which of the following statements about the Python code labeled "Line 1" in Figure 5 is correct?

A) It will display 1 when the program is executed.
B) It will display 2 when the program is executed.
C) It will display 3 when the program is executed.
D) It will display 4 when the program is executed.
E) None of the above.

19. Which of the following statements about the Python code labeled "Line 2" in Figure 5 is correct?

A) It will display 1 when the program is executed.
B) It will display 2 when the program is executed.
C) It will display 3 when the program is executed.
D) It will display 4 when the program is executed.
E) None of the above.

20. Which of the following statements about the Python code labeled "Line 3" in Figure 5 is correct?

A) It will display 0 when the program is executed.
B) It will display 11 when the program is executed.
C) It will display 12 when the program is executed.
D) It will display 13 when the program is executed.
E) None of the above.

21. What will be displayed when the following Python statements are executed?

A = "elephant"
print(A.replace("e", "E"))

A) False
B) True
C) Elephant
D) ElEphant
E) None of the above.
A = "aardvark"
B = "aardwolf"
C = "Rhinoceros"

print( A<B, B<C )       # Line 1
print( C[2], C[-3] )    # Line 2
print( C[:4] )          # Line 3
print( C[7:] )          # Line 4
print( C[:-3] )         # Line 5

22. Which of the following statements about the Python code labeled "Line 1" in Figure 6 is correct?
   A) It will display False False when the program is executed.
   B) It will display False True when the program is executed.
   C) It will display True False when the program is executed.
   D) It will display True True when the program is executed.
   E) None of the above.

23. Which of the following statements about the Python code labeled "Line 2" in Figure 6 is correct?
   A) It will display i e when the program is executed.
   B) It will display i r when the program is executed.
   C) It will display h e when the program is executed.
   D) It will display h r when the program is executed.
   E) None of the above.

24. Which of the following statements about the Python code labeled "Line 3" in Figure 6 is correct?
   A) It will display Rhin when the program is executed.
   B) It will display Rhino when the program is executed.
   C) It will display eros when the program is executed.
   D) It will display ceros when the program is executed.
   E) None of the above.

25. Which of the following statements about the Python code labeled "Line 4" in Figure 6 is correct?
   A) It will display Rhinocer when the program is executed.
   B) It will display noceros when the program is executed.
   C) It will display inoceros when the program is executed.
   D) It will display inoceros when the program is executed.
   E) None of the above.

26. Which of the following statements about the Python code labeled "Line 5" in Figure 6 is correct?
   A) It will display Rhinocer when the program is executed.
   B) It will display noceros when the program is executed.
   C) It will display inoceros when the program is executed.
   D) It will display inoceros when the program is executed.
   E) None of the above.
```python
def exam( A, B ):  # Line 1
    if len(A) > 5:
        A = A[1:5]
    if len(B) > 5:
        B = B[1:5]
    return 2*A+B

R = exam( "Dog", "Moose" )

print( R )  # Line 2
S = "Jaguar"
T = "Coyote"

print( exam( S, T ) )  # Line 3
print( S, T )  # Line 4
```

27. Which of the following statements about the Python code shown in Figure 7 is correct?

A) The statement labeled "Line 1" contains a function argument.
B) The statement labeled "Line 2" contains a function invocation.
C) The statement labeled "Line 3" contains a function parameter.
D) All of the above.
E) None of the above.

28. Which of the following statements about the Python code labeled "Line 2" in Figure 7 is correct?

A) It will display DogDogMoos when the program is executed.
B) It will display DogMoosDogMoos when the program is executed.
C) It will display DogDogMoose when the program is executed.
D) It will display DogMooseDogMoose when the program is executed.
E) None of the above.

29. Which of the following statements about the Python code labeled "Line 3" in Figure 7 is correct?

A) It will display aguaaguaoyot when the program is executed.
B) It will display aguaoyotaguaoyot when the program is executed.
C) It will display JaguJaguCoyo when the program is executed.
D) It will display JaguCoyoJaguCoyo when the program is executed.
E) None of the above.

30. Which of the following statements about the Python code labeled "Line 4" in Figure 7 is correct?

A) It will display agua oyot when the program is executed.
B) It will display Jagu Coyo when the program is executed.
C) It will display Jagua Coyot when the program is executed.
D) It will display Jaguar Coyote when the program is executed.
E) None of the above.