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Mentor Name: Tejaswini Annaluri Date of Submission: 08-01-2025

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1. Given the following code:

$$x = 10$$

$$y = 5$$

$$z = (x - y) * (x + y) / x$$

ANSWER: C

- 2. Which of the following statements is correct about z?
- A) z will always be an integer for any values of x and y.
- B) z will be a float because of implicit type conversion in division.
- C) z will be a float only if x or y is a float.
- D) z will raise an error because of operator precedence.

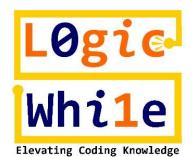
Answer: B

- 3. Select the correct result of the following expression (12 >> 2) & (9 \mid 3) ^ (15 % 4)
 - A) 0
 - B) 3
 - C) 13
 - D) 2

ANSWER: A

4. What does the following Python code print?

$$x, y, z = 3, 12, 2$$



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if x > y or y % 4 == 0:

$$z = y * x$$

if z % 3 == 0:

z -= x

else:

z += x

print(z)

- A) 20
- B) 32
- C) 33
- D) 21

ANSWER: C

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

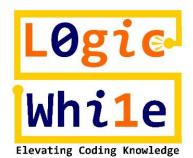
m=12

d=6

result = $((m \& d) \land (\sim d | m)) \& (m | d)$

print(result)

- A) 9
- B) 1
- C) 5



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D)	8
ANSWER:	D

Select the correct result of the following expression	n (8 >> 3) +	(4 & 2) 5	5 ^ 4)
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A) 1

8

- B) 3
- C) 4
- D) 2

ANSWER: A

7. True or False: The expression 4 + 3 * 2**3 /2 evaluates to 16.0.

- A) True
- B) False
- C) None
- D) Error

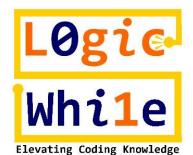
ANSWER: A

8. What will be the value of X after this operation?

$$x = 120$$

$$x += x << 3$$

- A) 850
- B) 960



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C) 1080

D) 1250

ANSWER: C

- 9. What happens when you perform: print (2 ** 3 ** 1)?
 - A) Prints 64
 - B) Prints 256
 - C) Prints 8
 - D) Raises an error

Answer: C

10. What's the output?

p = True

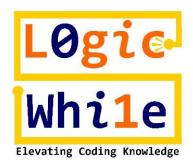
d = False

s = True

print (p + d + s)

- A) True
- B) Error
- C) 2
- D) False

Answer: C



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

- A) True
- B) False
- C) Syntax Error
- D) Type Error

Answer: B

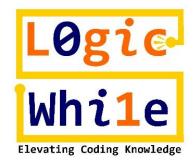
12. Which operator has the highest precedence in Python?

- A) + (Addition)
- B) and (Logical AND)
- C) ** (Exponentiation)
- D) = (Assignment)

Answer: C

13. Evaluate the following expression: 8 + 2 * 2 ** 2.

- A) 16
- B) 20
- C) 18
- D) 22



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Answer: A

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

print (2 in [1, 2,3, 5] and 10 not in (5, 10, 15))

- A) True
- B) False
- C) Syntax Error
- D) Type Error

Answer: B

15. What does the following code evaluate to?

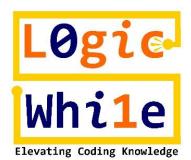
I = "logic while"

w = "logic while"

print (I is w)

- A) True
- B) False
- C) Syntax Error
- D) Type Error

Answer: A



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16. What will be the output of code snippet?

```
numbers = [10, 25, 32, 49, 6, 46]
```

result = 0

for n in numbers:

if n % 4 == 0 and n > 30:

result = n

break

print(result)

- A) 32
- B) 10
- C) 36
- D) 46

Answer: A

17. Predict the result of the following Python program:

```
data = (16, 22, 34, 45, 50)
```

result = None

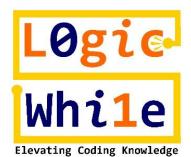
for value in data:

if value % 5 == 0 and value % 3 == 0:

result = value

break

print(result)



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- A) 22
- B) 34
- C) 45
- D) None

Answer: C

18. Identify the output of the following Python program:

```
numbers = (49, 29, 16, 25, 36)
```

result = 0

for num in numbers:

if num % 4 == 0 and num > 10:

result = num

break

print(result)

- A) 49
- B) 29
- C) 16
- D) 36

Answer: 16

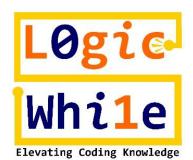


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19. The expression (5 > 3) a	nd (2 < 2) evaluates to
A) True	
B) False	
C) None	
D) Error	
Answer: B	
20. In Python, not has a high	ner precedence than and .
A) True	
B) False	
C) None	
D) Error	
Answer: A	
21. The // operator in Pytho	on is used to perform floating-point division.
A) True	
B) False	
C) Error	
D) None	
Answer: B	



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- 22. Tuples are immutable, so the += operator cannot be used to append elements to a tuple.
 - A) True
 - B) False
 - C) None
 - D) Error

Answer: A

23. Which operators in Python are used for comparison?

Answer: C

- 24. Which logical operators are supported in Python?
 - A) and, or, not
 - B) and, or, not, xor
 - C) not, or, nor
 - D) and, or, not, but

Answer: A



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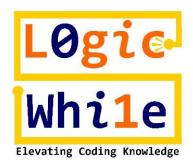
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25. The operator is used in object in memory.	Python to check whether two variables point to the same
A) and	
B) is	
C) or	
D) in	
Answer: B	
26. The not operator in Python ovalue.	can be used with any data type and always returns a boolean
A) True	
B) False	
C) None	
D) Error	
Answer: A	
27. What will be the value of res	sult after the following code executes?
a, b, c = 10, 20, 30	
result = a < b and b > c or	r c > a
print(result)	

A) True



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- B) False
- C) None
- D) Error

Answer: A

28. What will the following code output?

$$x = 5 + 10 * 2 // 3 - 4$$

print(x)

- A) 9
- B) 8
- C) 7
- D) 0

Answer: C

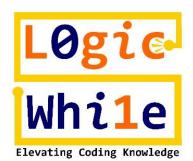
29. What will be the result of the following Python expression?

$$y = 4$$

$$z = 5$$

result =
$$(x + y) * z // y % x$$

- A) 2
- B) 1



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C) 0

D) 3

Answer: B

30. What will the following code print?

$$x = [1, 2, 8]$$

$$y = [1, 2, 8]$$

print (x is y)

- A) True
- B) False
- C) None
- D) Error

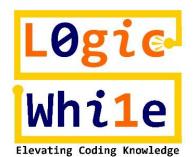
Answer: False

31. What will the following code output?

$$x = 15$$

print(x)

- A) 512
- B) 109



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C) 200

D) 225

Answer: D

32. What will be the value of result after running the following code?

a = 10

b = 20

result = 0

for i in range (5):

if a < b and i % 2 == 0:

result += i

print(result)

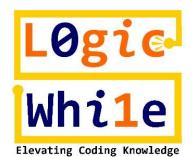
- A) 4
- B) 6
- C) 8
- D) 12

Answer: B

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

result = 0

for i in range (1, 6):



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if i % 2 == 0:

result += i * 4

print(result)

- A) 18
- B) 23
- C) 12
- D) 24

Answer: D

34. What will be the value of **total** after running the following code?

total = 0

for i in range (3, 9):

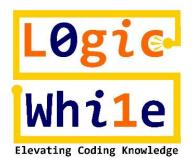
if i % 2!=0:

total += i * 2

print(total)

- A) 48
- B) 19
- C) 30
- D) 20

Answer: C



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

x = 2

y = 10

result = 0

for i in range (x, y, 3):

if i % 2 == 0:

result += i

print(result)

A)12

B) 11

C) 14

D) 10

Answer: D