**Guidelines:**

* In one page, a maximum of 5 MCQs and a minimum of 2 MCQs can be included.
* Questions Numbered 1 to 35
* The font name is Calibri (Body), and the size is 12.
* The primary part of the code must be in bold.
* The four choices should be labeled in uppercase, from A to D, followed by**).**
* All choices must begin with a tab space.
* Write each option on a new line.
* Write the correct answer as shown above, without a tab space after all the options.
* Leave a one-line gap between each question.
* True/False type questions can also be written.

**Note:** Without practice, don't simply copy and paste from other websites. If you feel it's worthwhile, change the values and process, then put it into the document.

1. Given a value **A9 (hexadecimal)**, what is the Least Significant Bit (LSB) of its binary equivalent?

A) 0

B) 1

C) 10

D) 11

**Answer: B**

2. What does the following Python code print?

**shopping\_cart=0**

**if shopping\_cart is 0:**

**print("Cart is empty")**

**else:**

**print("Proceeding to checkout")**

A) SyntaxWarning

B) 0

C) Proceeding to checkout

D) Cart is empty

**Answer: D**

3. What does the following Python code print?

**rs = -11<< 2**

**print(rs)**

A) 44

B) -44

C) 0

D) Error

**Answer: B**

4. What does the following Python code print?

**num = 101**

**if num & 1:**

**print("The number is odd")**

**else:**

**print("The number is even")**

A) SyntaxError

B) The number is odd

C) The number is even

D) The number is odd.

**Answer: B**

5. Select the correct result of the following expression **2**\*\***30 & 15 or 1\*\*26 and 2<<2**

A) 8

B) 4

C) 2

D) 0

**Answer: A**

6. What does the following Python code print?

**rs= 0.5//-0.11 is not -5**

**print(rs)**

A) SyntaxWarning

B) False

C) -5.0

D) True

**Answer: D**

7. What does the following Python code print?

**print(3 < 5 == True)**

**print(3 > 5 == True)**

A) SyntaxError

B) False False

C) False True

D) True False

**Answer: B**

8. Select the correct result of the following expression **2\*\*4\*\*2\*\*1**

A) 65536

B) Error

C) 256

D) 0

**Answer: A**

9. What does the following Python code print?

**print((2\*\*3)\*\*2\*\*1\*\*0)**

A) Error

B) 16

C) 0

D) 64

**Answer: D**

10. In python both **’is’** and **’==’** are result in **same way**?

A) True

B) False

**Answer: B**

11. Select the correct result of the following expression **2\*\*3\*\*2-1**

A) -1

B) Error

C) 511

D) 0

**Answer: C**

12. Select the correct result of the following expression **16>>4<<4?**

A) 16

B) 4

C) 8

D) 0

**Answer: A**

13. What does the following Python code print?

**print(1 / 3 \* 3 == 1)**

A) Error

B) False

C) 0

D) True

**Answer: D**

14. In python both **’&’ and ’or’** are result in **same way**?

A) True

B) False

**Answer: B**

15. What does the following Python code print?

**X=6**

**X+=X==6**

**print(X)**

A) Error

B) 7

C) 49

D) 6

**Answer: C**

16. What does the following Python code print?

**print(0.1+0.2==0.3)**

A) Error

B) True

C) False

D) 0.3

**Answer: C**

17. What does the following Python code print?

**X=4**

**Y=3**

**Z=0**

**A=X>Y<X==Z+4**

**print(A)**

A) Error

B) True

C) False

D) none

**Answer: B**

18. What does the following Python code print?

**a = 3 b = 4 c = 5**

**A = a < b == c != a**

**print(A)**

A) Error

B) True

C) False

D) none

**Answer: C**

19. What does the following Python code print?

**a = [1, 2]**

**b = [1,2]**

**c = a**

**A = a == b and a is c**

**print(A)**

A) Error

B) True

C) False

D) none

**Answer: B**

20. Select the correct result of the following expression **13\*12//13+12\*2**

A) 12

B) 48

C) 36

D) 16

**Answer: C**

21. What does the following Python code print?

**x = 1**

**y = 0**

**result = x and y or not y and x**

**print(result)**

A) 0

B) True

C) False

D) 1

**Answer: D**

22. What does the following Python code print?

**x = 5**

**y = 5.0**

**result = float(x) is y**

**print(result)**

A) 0

B) True

C) False

D) 1

**Answer: C**

23. What does the following Python code print?

**x = True y = False**

**print(x == y != x is y)**

A) 0

B) True

C) False

D) 1

**Answer: C**

24. What does the following Python code print?

**x = 2**

**y = 3**

**z = 4**

**result = not x and y or z and (y != z or x == y)**

**print(result)**

A) Error

B) True

C) False

D) None

**Answer: B**

25. What does the following Python code print?

**x = 5**

**y = 5.0**

**result = float(x) is y**

**print(result)**

A) 0

B) True

C) False

D) 1

**Answer: C**

26. What does the following Python code print?

**x = 5**

**y = 3**

**z = 2**

**result = not x < y == z != x \* y % z**

**print(result)**

A) Error

B) True

C) False

D) None

**Answer: B**

27. What does the following Python code print?

**a = True**

**b = False**

**c = True**

**result = a is b or b and c and a or a == b**

**print(result)**

A) 0

B) True

C) False

D) 1

**Answer: C**

28. What does the following Python code print?

**x = "Hello "**

**y = "World "**

**result = x + " " + y**

**print(result)**

A) Hello World

B) “Hello” “World”

C) Hello World

D) None

**Answer: A**

29. What does the following Python code print?

**x = 1**

**y = 1.0**

**z = '1'**

**result = (x == y) and (x is y) or (x == z)**

**print(result)**

A) 0

B) True

C) False

D) 1

**Answer: C**

30. What does the following Python code print?

**x=10**

**y=2**

**z=3**

**result =** x \*\* y // z \* x % z == (x | y) ^ (x & z)

**print(result)**

A) False

B) None

C) Error

D) True

**Answer: A**

31. What does the following Python code print?

**x = 3**

**y = 5**

**z = 4**

**result = not (x and y) or (x < z) and (y == z) is not x**

**print(result)**

A) 0

B) True

C) False

D) 1

**Answer: B**

32. What does the following Python code print?

**x = 0**

**y = 1**

**z = 0**

**result = (x and y or z) == (x or y) and (y == z)**

**print(result)**

A) True

B) 0

C) False

D) 1

**Answer: C**

33. What does the following Python code print?

**x = 3**

**y = 4**

**z = 7**

**result =** (x and y) or z \* (y - x) == 3 \*\* z

**print(result)**

A) 4

B) 5

C) 6

D) 1

**Answer: A**

34. What does the following Python code print?

**x = 0**

**y = 1**

**z = 2**

**result =** x or y and z == 2 \*\* (x or y)

**print(result)**

A) 0

B) True

C) False

D) 1

**Answer: B**

35. What does the following Python code print?

**x = 10**

**y = 2**

**result = (x + y) \* y % (x << 2) | (x >> 1)**

**print(result)**

A) 29

B) 30

C) 45

D) 1

**Answer: A**