1. What will be the result of the following expression **(5\*\*3)%7\*(4>>1)** ?

A) 6

B) 12

C) 18

D) 14

**Answer: B**

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

**Integers a,b,c**

**Set a=1,b=2,c=3**

**print((a\*\*2)-(b\*(c//a))-(a%c))**

A) 6

B) -6

C) -5

D) 5

**Answer: B**

3. What does the following Python code snippet print?

**Integers a,b**

**Set a,b=5,3**

***if* a>b:**

**print(a//b+(b%(~a))-b/a)**

***elif* a<b:**

**print(b\*\*a%(b>>a)/a)**

A) 2.0

B) -2.4

C) -1.4

D) -2.6

**Answer: D**

4. Which operators are used to check *if* a value is present in a string or a list?

A) ==,!=

B) in, not in

C) is, is not

D) &,|

**Answer: B**

5. What will the following Python code print?

**a=False**

**b=True**

***if* a==b:**

**print("Cool")**

***elif* (b and not a) or b:**

**print("Awesome")**

A) Awesome

B) Cool

C) True

D) False

**Answer: A**

6. Which operators are used *with* strings, lists, tuples, and dictionaries.

A) is not, is

B) in, not in

C) not in, in

D) is, is not

**Answer: B**

7. Which of the following expressions returns True in Python if a, b = 10, 5

A) (~(~b)>>(~a))

B) (b%(~a)!=0)

C) (a%(a>>b)\*b)

D) a%b

**Answer: B**

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

**print((~4!=5) *or* (not(8>10)) *or* (8==2\*\*3))**

A) True

B) False

C) None

D) Error

**Answer: A**

9. Which has the highest precedence (*and*,&,|,*or*)

A) and

B) &

C) |

D) or

**Answer: B**

10. Which of the following expressions will *return* True?

***a=[11,22,33,44]***

***b=a[:4]***

A) a is not b and b is a

B) a==b and b==a

C) a!=b or a is not b

D) a is b

**Answer: C**

11. What is the output of the following pseudo code?

***Integer a,s,k***

***Set a=45,s=69,k=80***

***k=(s//a+k\*\*1%2)***

***s=(a-10\*1+5)%5***

***a=(k+4)-(s\*\*5)***

***print(a)***

A)1

B)3

C)5

D)7

**Answer: C**

12. What is the output of the following code snippet?

***Integers a,b***

***Set a=False***

***Set b=True***

***Set c=True***

***print(not b and a or c)***

A)True

B)False

C)None

D)Error

**Answer: A**

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

***Integers a,b***

***Set a,b=12,10***

***print(a//8-a+b\*\*2%4)***

A) -9

B) -11

C) 11

D) 9

**Answer: B**

14.  What is the output of the following code?

***print(4\*\*2+10//5<<4-2)***

A) 62

B) 64

C) 72

D) 80

**Answer: C**

15. What is the value of c after executing the following code snippet?

***a=10;b=12***

***if a!=5:***

***c=a%b+(2\*(~(~b)))***

***print(c)***

***else:***

***d=(b//a+1\*3-(b%3+a\*\*2)//b)***

***print(d)***

A) 24

B) 34

C) 14

D) Error

**Answer: B**

16. The logical operators are having more precedence than the bitwise operators?

A) True

B) False

**Answer: B**

17. Which operators are used to differentiate between checking reference and checking value?

*A)and,or*

*B)in,not in*

*C)==,!=*

*D)is,is not*

**Answer: D**

18. What is the output of the following code snippet?

**a=[1,2,3,4,5]**

**b=[6,7,8,9,10]**

**c=[11,12,13,14,15]**

**d=c.copy()**

**d+=[16,17,18,19,20]**

**e=d[4::-1]**

**print(e)**

A) [16,15,14,13,12]

B) [15,14,13,12,11]

C) [20,19,18,17,16]

D) [11,12,13,14,15]

**Answer: B**

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

***a=[1,2,3,4,5]***

***b=[11,22,33,44,55]***

***if a in b:***

***print("A is in B")***

***elif a not in b:***

***a+=b***

***print(a)***

A) [1,11,2,22,3,33,4,44,5,55]

B) [1,2,3,4,5,11,22,33,44,55]

C) [55,44,33,22,11,5,4,3,2,1]

D) [55,5,44,4,33,3,22,2,11,1]

**Answer: B**

20. What is the output of the following pseudo code?

***Function relationalOperators(a,b):***

***If a!=b and a<=b:***

***c=a%b***

***Elif b>=a:***

***c=a\*\*b***

***Elif a%10!=10//b:***

***c=a//b***

***Else:***

***c=a-b\*b+(a%12-1//2)***

***Return c***

A) Returns b raised to the power of a *if* b >= a

B) Returns the quotient of a divided by b *if* a!=b and a<=b

C) Returns the division of a and b *if* a%10!=10//b

D) All the above

**Answer: C**

21. Which has the highest precedence << ,and,& ?

*A ) <<*

*B) and*

*C) &*

*D) It depends on the context*

**Answer: A**

22. Which operator is used *as* the logical AND operation?

*A) and*

*B) AND*

*C) &*

*D) None*

**Answer: A**

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

***Integers a,b,c***

***Set a=2***

***Set b=3***

***Set c=4***

***res=(a+b+c)+(a^b)-(b^c)-(c^a)***

***print(res)***

A) 3

B)-3

C)7

D)1

**Answer: B**

24. What is the output of the following?

***a=[1,2,3,4,5];b=[6,7,8,9,10];c=b[:5]***

***for i in range(len(a)):***

***a[i]+=c[i]***

***result=sum(a[1:3])+a[4]//a[-1]***

***print(result)***

A) 11

B) 21

C) 17

D)27

**Answer: B**

25. Given the following code. What is it’s output?

***a=[1,2,3,4,5]***

***b=[6,7,8,9,10]***

***if 1 in a  and 10 in b:***

***print(a[2]%b[3]-(2\*\*a[2])+b[3]//a[2])***

***else:***

***print((a[2]+b[3])%5-a[2]//b[3]\*a[2])***

A)3

B)-4

C)-5

D)-2

**Answer: D**

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

**n = [2, 4, 6, 8, 10, 12]**

**a,b,c=2,5,7**

**n[3] += b**

**n[4] -= a**

**n[0] \*= 3**

**n[3] /= 2**

**result = sum(n)**

***if* result > 10:**

**print(a%b-(c+b)\*c//a)**

***else*:**

**print(c+(a//b)-c%a)**

A)-38

B)-39

C)-41

D)-40

**Answer: D**

27. Which of the following operator uses bitwise OR,XOR?

A) |,^

B) ^,|

C) |,~

D) ~,|

**Answer: A**

28. Consider the below code:

***s=[1, 2, 3, 4];k=[1, 2, 3, 4];a=s;b=a;c=(s==k)***

***print(c)***

***d=(a==s)***

***print(d)***

***e=(s is k)***

***print(e)***

***f=(s is a)***

***print(f)***

*What are the values of c,d,e,f?*

A) c=True,d=True,e=True,f=False

B) c=False,d=False,e=True,f=True

C) c=True,d=True,e=False,f=True

D) c=False,d=True,e=False,f=False

**Answer: C**

29. What is the output of the following code?

***lst1=[11,22,33,44,55]***

***res=0***

***for i in lst1:***

***res+=(i\*2//i+2%3) if ((i//2)+i\*\*2)==0 else (i+7)***

***print(res)***

A)100

B)200

C)300

D)400

**Answer: B**

30. What is the output of the following code?

**a=45**

**b=34**

**c=a|b**

***if* c!=0:**

**d=((b>>1)-(a//b)\*2)**

**d//=(a%b+(~a))**

**print(d)**

A) -2

B) 0

C) 2

D) -1

**Answer: D**

31. What is the output of the following code snippet?

***x=[11,22,33,44,55]***

***a=32***

***b=44***

***if a not in x or b in x:***

***c=x[2]-x[3]+x[4]\*2***

***res=c<20 or (x[1]\*3>b) and (x[4]!=b)***

***else:***

***res=x[4]+x[3]//x[1]***

***print(res)***

A) True

B) False

**Answer: A**

32. What is the output ?

***a=7***

***res=0***

***for i in range(1,a+2):***

***res+=(i\*2)-(i+2)***

***print(res)***

A) 23

B) 34

C) 20

D) 35

**Answer: C**

33. What is the output of the following code?

***lst1=[1,2,3,4,5]***

***res=0***

***for item in lst1:***

***res-=(item\*lst1[2])-(lst1[3]%2)+(item\*\*2)***

***print(res)***

A) -120

B) -135

C) -95

D) -100

**Answer: D**

34. Can you determine the value that will be outputted by this code?

***a=2***

***b=3***

***c=5***

***d=8***

***result=(a//b+d%a-b\*\*2)-(a<<b+1)+(d>>b\*2)-(a+b+c-d)***

***print(result)***

A) -46

B) -45

C) -44

D) -43

**Answer: D**

35. What is the output of thw following code?

***x,y=8,9***

***z=y & x***

***w=x | z***

***res=((~x)!=0) and (w==x) and (z!=y)***

***print(res)***

A) True

B) False

**Answer: A**