1.Which of these about a set is not true?
a) Mutable data type
b) Does not allow duplicate values
c) Data type with unordered values
d) Immutable data type

2.Which of the following is not the correct syntax for creating a set?
a) set([[1,2],[3,4]])#Type Error
b) set([1,2,2,3,4])
c) set((1,2,3,4))
d) {1,2,3,4}

3.What will be the output of the following Python code?
nums = set([1,1,2,3,3,3,4,4])
print(len(nums))
a) 7
b) Error, invalid syntax for formation of set
c) 4
d) 8

4.Which of the following statements is used to create an empty set?
a) { }--->Dictionary
b) set()
c) [ ]--->List
d) ( )--->tuple

5.What will be the output of the following Python code?
>>> a={5,4}
>>> b={1,2,4,5}
>>> a<b
a) {1,2}
b) True
c) False
d) Invalid operation

6. If a={5,6,7,8}, which of the following statements is false?
a) print(len(a))#4
b) print(min(a))#5
c) a.remove(5)
d) a[2]=45

7.If a={5,6,7}, what happens when a.add(5) is executed?
a) a={5,5,6,7}
b) a={5,6,7}
c) Error as there is no add function for set data type
d) Error as 5 already exists in the set

8.What will be the output of the following Python code?
>>> a={4,5,6}
>>> b={2,8,6}
>>> a+b
a) {4,5,6,2,8}
b) {4,5,6,2,8,6}
c) Error as unsupported operand type for sets
d) Error as the duplicate item 6 is present in both sets

9.What will be the output of the following Python code?
>>> a={4,5,6}
>>> b={2,8,6}
>>> a-b
a) {4,5}
b) {6}
c) Error as unsupported operand type for set data type
d) Error as the duplicate item 6 is present in both sets

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

>>> a={5,6,7,8}
>>> b={7,8,10,11}
>>> a^b
a) {5,6,7,8,10,11}
b) {7,8}
c) Error as unsupported operand type of set data type
d) {5,6,10,11}

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

>>> s={5,6}
>>> s*3
a) Error as unsupported operand type for set data type
b) {5,6,5,6,5,6}
c) {5,6}
d) Error as multiplication creates duplicate elements which isn't allowed

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

>>> a={5,6,7,8}
>>> b={7,5,6,8}
>>> a==b
a) True
b) False

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

>>> a={3,4,5}
>>> b={5,6,7}
>>> a|b
a) Invalid operation
b) {3, 4, 5, 6, 7}

c) {5}
d) {3,4,6,7}

14.Is the following Python code valid?

a={3,4,{7,5}}
print(a[2][0])
a) Yes, 7 is printed
b) Error, elements of a set can't be printed
c) Error, subsets aren't allowed
d) Yes, {7,5} is printed

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

>>> a={1,2,3}
>>> b=a
>>> b.remove(3)
>>> a
a) {1,2,3}
b) Error, copying of sets isn't allowed
c) {1,2}
d) Error, invalid syntax for remove

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

>>> a={1,2,3}
>>> {x*2 for x in a|{4,5}}
a) {2,4,6}
b) Error, set comprehensions aren't allowed
c) {8, 2, 10, 4, 6}
d) {8,10}

17.What will be the output of the following Python code?
>>> a={5,6,7,8}
>>> b={7,8,9,10}
>>> len(a+b)
a) 8
b) Error, unsupported operand '+' for sets
c) 6
d) Nothing is displayed

18.What will be the output of the following Python code?
a={1,2,3}
b={1,2,3}
c=a.issubset(b)
print(c)
a) True
b) Error, no method called issubset() exists
c) Syntax error for issubset() method
d) False

19.Is the following Python code valid?

```
a={1,2,3}
b={1,2,3,4}
c=a.issuperset(b)
print(c)
```
a) False
b) True
c) Syntax error for issuperset() method
d) Error, no method called issuperset() exists

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

```
s=set()
type(s)
```
a) <'set'>
b) <class 'set'>
c) set
d) class set

21.What is the output of the following

```
set1 = {10, 20, 30, 40, 50}
set2 = {60, 70, 10, 30, 40, 80, 20, 50}

print(set1.issubset(set2))
print(set2.issuperset(set1))
```
a) False
False

b) True
True

22.The union() method returns a new set with all items from both sets by removing duplicates

 a)True
 b)False

23.What is the output of the following

```
sampleSet = {"Yellow", "Orange", "Black"}
sampleSet.add("Blue")
sampleSet.add("Orange")
print(sampleSet)
```
a) {'Blue', 'Orange', 'Yellow', 'Orange', 'Black'}
b) {'Blue', 'Orange', 'Yellow', 'Black'}

24.What is the output of the following code

sampleSet = {"Yellow", "Orange", "Black"}
print(sampleSet[1])

 a)Yellow
 b)Syntax Error
 c)Orange

25.Full form of PVM?(Python Virtual machine)
26.Full form of PIP?(Python Installer Package)
27.Full Form of IDE?(Integrated Development Environment)
IDLE(Integrated Development Learning Environment)
Q.which command do we use to download python using cmd?
pip install numpy
Q.WORA? Write once read Anywhere/anytime
Q.DRY? Don't Repeat Yourself
PEP--->Python Enhancement Proposal.