Part1 :

1. Which of the following statements create a dictionary?
a) d = {}
b) d = {“john”:40, “peter”:45}
c) d = {40:”john”, 45:”peter”}
d) All of the mentioned

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

```
d = {"john":40, "peter":45}
print(d)
```

a) “john”, 40, “peter”, 45
b) {‘john’: 40, ‘peter’: 45}
c) 40 and 45
d) d = (40:”john”, 45:”peter”)

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

```
>>> d = {"john":40, "peter":45}
>>> "john" in d
```

a) True
b) False
c) None
d) Error

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

```
d1 = {"john":40, "peter":45}
d2 = {"john":466, "peter":45}
d1 == d2
```

a) True
b) False
c) None
d) Error

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

```
d1 = {"john":40, "peter":45}
d2 = {"john":466, "peter":45}
d1 > d2
```

a) True
b) False
c) Error
d) None

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

```
d = {"john":40, "peter":45}
d["john"]
```

a) 40
b) 45
c) “john”
d) “peter”

7. Suppose d = {“john”:40, “peter”:45}, to delete the entry for “john” what command do we use?
a) d.delete(“john”:40)
b) d.delete(“john”)
c) del d[“john”]
d) del d(“john”:40)

8. Suppose d = {“john”:40, “peter”:45}. To obtain the number of entries in dictionary which command do we use?
a) d.size()
b) len(d)
c) size(d)
d) d.len()

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

```
d = {"john":40, "peter":45}
print(list(d.keys()))
```

a) [“john”, “peter”]
b) [“john”:40, “peter”:45]
c) (“john”, “peter”)
d) (“john”:40, “peter”:45)

10. Suppose d = {“john”:40, “peter”:45}, what happens when we try to retrieve a value using the expression d[“susan”]?
a) Since “susan” is not a value in the set, Python raises a KeyError exception
b) It is executed fine and no exception is raised, and it returns None
c) Since “susan” is not a key in the set, Python raises a KeyError exception
d) Since “susan” is not a key in the set, Python raises a syntax error

Part2 :

1. Which of these about a dictionary is false?
a) The values of a dictionary can be accessed using keys
b) The keys of a dictionary can be accessed using values
c) Dictionaries aren’t ordered
d) Dictionaries are mutable

2. Which of the following is not a declaration of the dictionary?
a) {1: 'A', 2: 'B'}
b) dict([[1,"A"],[2,"B"]])
c) {1,"A",2"B"}
d) { }

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

```
a={1:"A",2:"B",3:"C"}
for i,j in a.items():
    print(i,j,end=" ")
```

a) 1 A 2 B 3 C
b) 1 2 3
c) A B C
d) 1:"A" 2:"B" 3:"C"

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

```
a={1:"A",2:"B",3:"C"}
print(a.get(1,4))
```

a) 1
b) A
c) 4
d) Invalid syntax for get method

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

```
a={1:"A",2:"B",3:"C"}
print(a.get(5,4))
```

a) Error, invalid syntax
b) A
c) 5
d) 4

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

```
a={1:"A",2:"B",3:"C"}
print(a.setdefault(3))
```

a) {1: 'A', 2: 'B', 3: 'C'}
b) C
c) {1: 3, 2: 3, 3: 3}
d) No method called setdefault() exists for dictionary

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

```
a={1:"A",2:"B",3:"C"}
a.setdefault(4,"D")
print(a)
```

a) {1: 'A', 2: 'B', 3: 'C', 4: 'D'}
b) None
c) Error
d) [1,3,6,10]

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

```
a={1:"A",2:"B",3:"C"}
b={4:"D",5:"E"}
a.update(b)
print(a)
```

a) {1: 'A', 2: 'B', 3: 'C'}
b) Method update() doesn't exist for dictionaries
c) {1: 'A', 2: 'B', 3: 'C', 4: 'D', 5: 'E'}
d) {4: 'D', 5: 'E'}

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

```
a={1:"A",2:"B",3:"C"}
b=a.copy()
b[2]="D"
print(a)
```

a) Error, copy() method doesn't exist for dictionaries
b) {1: 'A', 2: 'B', 3: 'C'}
c) {1: 'A', 2: 'D', 3: 'C'}
d) "None" is printed

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

```
a={1:"A",2:"B",3:"C"}
a.clear()
print(a)
```

a) None
b) { None:None, None:None, None:None}
c) {1:None, 2:None, 3:None}
d) { }

11. Which of the following isn't true about dictionary keys?
a) More than one key isn't allowed
b) Keys must be immutable
c) Keys must be integers
d) When duplicate keys encountered, the last assignment wins

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

```
a={1:5,2:3,3:4}
a.pop(3)
print(a)
```

a) {1: 5}
b) {1: 5, 2: 3}
c) Error, syntax error for pop() method
d) {1: 5, 3: 4}

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

```
a={1:5,2:3,3:4}
print(a.pop(4,9))
```

a) 9
b) 3
c) Too many arguments for pop() method
d) 4

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

```
a={1:"A",2:"B",3:"C"}
for i in a:
    print(i,end=" ")
```

a) 1 2 3
b) 'A' 'B' 'C'
c) 1 'A' 2 'B' 3 'C'
d) Error, it should be: for i in a.items():

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

```
>>> a={1:"A",2:"B",3:"C"}
>>> a.items()
```

a) Syntax error
b) dict_items([('A'), ('B'), ('C')])
c) dict_items([(1,2,3)])
d) dict_items([(1, 'A'), (2, 'B'), (3, 'C')])