20 MARKS QUESTIONS

Slip 1 Q2:

```
s1 = {10,20,30,40,50,60}
s2 = {22,50,60,40,10,20,30}
print("Difference is : ",s2.difference(s1))
print("Union : ",s2.union(s1))
print("Intersection : ",s1.intersection(s2))
print("Symetric Difference : ",s1.symmetric_difference(s2))
```

Slip 2 Q2:

```
n1 = int(input("How many number you wants to enter (1st set) : "))
s1 = set()
for i in range(n1):
       x = int(input())
       s1.add(x)
n2 = int(input("How many number you wants to enter (2nd set): "))
s2 = set()
for i in range(n2):
       x = int(input())
       s2.add(x)
if( s1 == s2):
       print("Both SET are EQUAL ")
else:
        print("Both SET are NOT EQUAL ")
if( len(s1) > len(s2)):
       print("Symmetric Difference : ",s1.symmetric_difference(s2))
else:
       print("Symmetric Difference : ",s2.symmetric_difference(s1))
if( len(s1) > len(s2)):
        print("Intersection : ",s1.intersection(s2))
else:
        print("Intersection : ",s2.intersection(s1))
print("Max Value SET 1 : ",max(s1))
print("Max Value SET 2 : ",max(s2))
print("\nMin Value SET 1 : ",min(s1))
print("Min Value SET 2 : ",min(s2))
```

Slip 4 Q2:

```
d1 = {'key1': 1, 'key2': 3, 'key3': 2}
d2 = {'key1': 1, 'key2': 2}
print("D1 : ",d1)
print("D2 : ",d2)
key = input("Enter key for search : ")
if (key in d1 and key in d2):
       print(key," is present in both dictonary !!")
else:
       print(key," is NOT present in both dictonary !!")
```

Slip 5 Q2:

```
n = int(input("Enter N: "))
add = 0 # 3
for num in range(1, n+1):
    add += num
    print(add)
```

Slip 6 Q2:

```
def count_occurrences(tup):
    occurrence_dict = {}
    for item in tup:
        if item in occurrence_dict:
            occurrence_dict[item] += 1
        else:
            occurrence_dict[item] = 1

    for key, value in occurrence_dict.items():
        if value > 2:
            print(f"{key}: {value} times")

my_tuple = (1, 2, 2, 3, 4, 4, 4, 5, 5, 5, 5)


count_occurrences(my_tuple)
```

Slip 7 Q2:

```
n = int(input("Enter a N : "))
d = {}
for i in range(1,n+1):
    d[i] = i**2

print("Dictonary is : ",d)
```

Slip 10 Q2:

```
def create_char_count_dict(string):
    char_count_dict = {}
    for char in string:
        if char in char_count_dict:
            char_count_dict[char] += 1
        else:
            char_count_dict[char] = 1
    return char_count_dict

sample_string = input("Enter the string ")


result = create_char_count_dict(sample_string)
print(result)
```

Slip 11 Q2:

```
num = int(input("Enter the number "))
reversed_num = str(num)[::-1]
reversed_num = int(reversed_num)

print("Original number ", num);
print("reversed number ", reversed_num);
```

Slip 12 Q2:

```
n = int(input("Enter a Number : "))
sum = 0
while(n>0):
    sum = sum + n%10
    n //= 10
print("Sum of digits are : ",sum)
```