

Subject: Computer Science (083)

Assignment- 1

Q1. Write a method COUNTLINES() in Python to read lines from text file 'TESTFILE.TXT' and display the lines which are not starting with any vowel.

Example: If the file content is as follows: An apple a day keeps the doctor away. We all pray for everyone's safety. A marked difference will come in our country. The COUNTLINES() function should display the output as: 3 7 The number of lines not starting with any vowel - 1

Q2. Write a function ETCOUNT() in Python, which should read each character of a text file "TESTFILE.TXT" and then count and display the count of occurrence of alphabets E and T individually (including small cases e and t too).

Example: If the file content is as follows: Today is a pleasant day. It might rain today. It is mentioned on weather sites The ETCOUNT() function should display the output as: E or e: 6 T or t : 9.

Q3. Rao has written a code to input a number and check whether it is prime or not. His code is having errors. Rewrite the correct code and underline the corrections made.

```
def prime():  
    n=int(input("Enter number to check :: "))  
    for i in range (2, n//2):  
        if n%i=0:  
            print("Number is not prime \n")  
            break else: print("Number is prime \n')
```

Q4. Given is a Python string declaration: myexam="@@CBSE Examination 2022@@"

Write the output of: print(myexam[::-2])

Q5. Write the output of the code given below:

```
my_dict = {"name": "Aman", "age": 26}  
my_dict['age'] = 27 my_dict['address'] = "Delhi" print(my_dict.items())
```

Q5. Predict the output of the Python code given below:

```
def Diff(N1,N2):  
    if N1>N2:  
        return N1-N2  
    else:  
        return N2-N1  
NUM= [10,23,14,54,32]  
for CNT in range (4,0,-1):  
    A=NUM[CNT]  
    B=NUM[CNT-1]  
    print(Diff(A,B),'#', end= ' ')
```

Q6. Predict the output of the Python code given below:

```
tuple1 = (11, 22, 33, 44, 55, 66)
list1 = list(tuple1)
new_list = []
for i in list1:
    if i%2==0:
        new_list.append(i)
new_tuple = tuple(new_list)
print(new_tuple)
```

Q7. Differentiate between actual parameter(s) and a formal parameter(s) with a suitable example for each.

Q8. Explain the use of global key word used in a function with the help of a suitable example.

Q9. Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code.

```
Value=30
for VAL in range(0,Value)
    If val%4==0:
        print (VAL*4)
    Elseif val%5==0:
        print (VAL+3)
    else
        print(VAL+10)
```

Q10. What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum values that can be assigned to each of the variables Lower and Upper.

```
import random
AR=[20,30,40,50,60,70];
Lower =random.randint(1,3)
Upper =random.randint(2,4)
for K in range(Lower, Upper +1):
    print (AR[K],end="##")
```

(i) 10#40#70#

(ii) 30#40#50#

(iii) 50#60#70#

(iv) 40#50#70#