WORKSHEET 2

MULTIPLE CHOICE QUESTION

1 Find the invalid identifier from the following
   a) None
   b) address
   c) Name
   d) pass

2 Write the type of tokens from the following:
   a) If
   b) roll_no

3 Consider a declaration L = (1, 'Python', '3.14').
Which of the following represents the data type of L?
   a) List
   b) Tuple
   c) Dictionary
   d) String

4 Identify the valid arithmetic operator in Python from the following.
   a) ?
   b) <
   c) **
   d) And

5 Which of the following statements is/are not python keywords?
   a) False
   b) Math
   c) WHILE
   d) Break

6 Which of the following is a valid keyword in Python?
   a) False
   b) return
   c) non_local
   d) none

7 State True or False.
"Identifiers are names used to identify a variable, function in a program".

8 Identify the invalid identifier out of the options given below.
   a) Qwer_12
   b) IF
   c) Play123
   d) Turn.over

9 One of the following statements will raise error. Identify the statement that will raise the error.

a)
```
>>> x,y=20
```
b)
```
>>> a,b=6,7*9
```
c)
```
>>> a=b=c=35
```
d) None of above will raise error

10 Given the following Tuple
Tup (10, 20, 30, 50)
Which of the following statements will result in an error?
a) print (Tup [0])
b) print (Tup [1:2])
c) Tup.insert (2,3)
d) print(len (Tup))

11 Consider the given expression : 5<10 and 12>7 or not 7>4
Which of the following will be the correct output, if the given expression is evaluated?
a) True
b) False
c) NULL
d) NONE

12 Which of the following will give output as [5,14,6] if lst=[1,5,9,14,2,6]?
a) print(lst[0::2])
b) print(lst[1::2])
c) print(lst[1:5:2])
d) print(lst[0:6:2])

13 The return type of the input() function is
a) string
b) Integer
c) list
d) tuple

14 Which of the following operator cannot be used with string data type?
a) +
b) In
c) *
d) /

15 Consider a tuple tup1 = (10, 15, 25, and 30). Identify the statement that will result in an error.
a) print(tup1[2])
b) tup1[2] = 20
c) print(min(tup1))
d) print(len(tup1))

16 Which one of the following is the default extension of a Python file?
a) .exe
b) .p++

c) .py
d) .p

17 Which of the following symbol is used in Python for single line comment?
a) /
b) /*
c) //
d) #

18 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

19 Which is the correct form of declaration of dictionary?
a) Day={1:'monday',2:'tuesday',3:'wednesday'}
b) Day=(1;'monday',2;'tuesday',3;'wednesday')
c) Day=[1:'monday',2:'tuesday',3:'wednesday']
d) Day={1'monday',2'tuesday',3'wednesday']

20 What will be the output of the following statement:
print(3-2**2**3+99/11)
a) 244
b) 244.0
c) -244.0
d) Error

21 What is the output of following code:
T=(100) print(T*2)
a) Syntax error
b) (200,)
c) 200
d) (100,100)

22 Identify the output of the following Python statements:
x = [[10.0, 11.0, 12.0],[13.0, 14.0, 15.0]] y = x[1][2] print(y)
a) 12.0
b) 13.0
c) 14.0
d) 15.0

23 Select the correct output of the code :
S= "Amrit Mahotsav @ 75" A=S.partition (" ") print (a)
a) ('Amrit Mahotsav', '@', '75')
b) ['Amrit', 'Mahotsav', '@', '75']
c) ('Amrit', 'Mahotsav @ 75')
d) ('Amrit', '', 'Mahotsav @ 75')

24 Identify the output of the following Python statements.

```
x = 2
 while x < 9:
        print(x, end='')
      x = x + 1
```

a) 12345678
b) 123456789
c) 2345678
d) 23456789

25 Identify the output of the following Python statements.

```
b = 1
for a in range(1, 10, 2):
     b += a + 2
     print(b)
```

a) 31
b) 33
c) 36
d) 39

26 A tuple is declared as T = (2,5,6,9,8). What will be the value of sum(T)?

27 Identify the output of the following Python statements.

```
lst1 = [10, 15, 20, 25, 30]
lst1.insert( 3, 4)
lst1.insert( 2, 3)
print (lst1[-5])
```

a) 2
b) 3
c) 4
d) 20

28 Evaluate the following expression and identify the correct answer.

```
16 - (4 + 2) * 5 + 2**3 * 4
```

a) 54
b) 46
c) 18
d) 32

29 Fill in the blank.

_____function is used to arrange the elements of a list in ascending order.

a) sort()
b) ascending()
c) arrange()
d) asort()

30 Which of the following will delete key-value pair for key = “Red” from a dictionary D1?

a) delete D1("Red")
b) del D1["Red"]
c) del.D1["Red"]
d) D1.del["Red"]

31 Identify the valid declaration of L: L = [‘Mon’, ‘23’, ‘hello’, ’60.5’]

a) dictionary
b) string
c) tuple
d) list

32 Given a Tuple tup1= (10, 20, 30, 40, 50, 60, 70, 80, 90).
What will be the output of print (tup1 [3:7:2])?

a) (40,50,60,70,80)
b) (40,50,60,70)
c) [40,60]
d) (40,60)

33 If the following code is executed, what will be the output of the following code?

```
name="ComputerSciencewithPython"
print(name[3:10])
```

34 Which of the following statement(s) would give an error during execution of the following code?

```
tup = (20,30,40,50,80,79)
print(tup)            #Statement 1
print(tup[3]+50)      #Statement 2
print(max(tup))       #Statement 3
tup[4]=80             #Statement 4
```

a) Statement 1
b) Statement 2
c) Statement 3
d) Statement 4

35 Consider the statements given below and then choose the correct output from the given options:

```
pride="#G20 Presidency"
print(pride[-2:2:-2])
```

a) ndsr
b) ceieP0
c) ceieP
d) yndsr

36 Given is a Python list declaration :

Listofnames=["Aman", "Ankit", "Ashish", "Rajan", "Rajat"]

Write the output of:

```
print (Listofnames [-1:-4:-1])
```

37 What will be the output of the following code:

```
Cities=['Delhi','Mumbai']
Cities[0],Cities[1]=Cities[1],Cities[0]
print(Cities)
```

38 What will be the output of the following code?

```
tup1 = (1,2,[1,2],3)
tup1[2][1]=3.14
print(tup1)
```

a) (1,2,[3.14,2],3)
b) (1,2,[1,3.14],3)
c) (1,2,[1,2],3.14)
d) Error Message

39 Select the correct output of the code:

```
s = "Python is fun"
l = s.split()
s_new = "-".join([l[0].upper(), l[1], l[2].capitalize()])
print(s_new)
```

a) PYTHON-IS-Fun
b) PYTHON-is-Fun
c) Python-is-fun
d) PYTHON-Is –Fun

40 What will be the result of following python code?

```
a,b=5,10
a,b=b+2,a-1
print("a=",a,"b=",b)
a+=2
b=b/2
print("a=",a,"b=",b)
```

41 For a string S declared as S="PYTHON", Which of the following is incorrect:

a) N=len(s)
b) T=S
c) "T" in S
d) S[0]="M"

42 Which of the following statement(s) would give an error after executing the following code?

```
Stud={"Murugan":100,"Mithu":95}    # Statement 1
print (Stud [95])                  # Statement 2
Stud ["Murugan"]=99                # Statement 3
print (Stud.pop())                 # Statement 4
```

print (Stud) # Statement 5

a) Statement 2
b) Statement 4
c) Statement 3
d) Statements 2 and 4

43 What will be the output of following Python code?

```
>>> d={1:"Ajay",2:"Neeta",3:"Saira"}
...
>>> print("Neeta" in d)
```

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

44 Write a statement in Python to declare a dictionary whose keys are 1, 2, 3 and values are Monday, Tuesday and Wednesday respectively.

45 Assertion(A): List is an immutable data type
Reasoning(R): When an attempt is made to update the value of an immutable variable, the old variable is destroyed and a new variable is created by the same name in memory

a) Both A and R are true and R is the correct explanation for A
b) Both A and R are true and R is not the correct explanation for A
c) A is True but R is False
d) A is false but R is True

46 Assertion (A): Python Standard Library consists of various modules.
Reasoning(R): A function in a module is used to simplify the code and avoids repetition.

a) Both A and R are true and R is the correct explanation for A
b) Both A and R are true and R is not the correct explanation for A
c) A is True but R is False
d) A is false but R is True

47 Assertion(A): List is an immutable data type
Reasoning(R): When an attempt is made to update the value of an immutable variable, the old variable is destroyed and a new variable is created by the same name in memory.

a) Both A and R are true and R is the correct explanation for A
b) Both A and R are true and R is not the correct explanation for A
c) A is True but R is False
d) A is false but R is True

48 Assertion (A) : List can not become key in a dictionary.
Reasoning(R) : Only integers can be keys in a dictionary.

a) Both A and R are true and R is correct explanation of A
b) Both A and R are true but R is not correct explanation of A
c) A is True but R is false
d) R is true but A is false

Weightage : 2 marks

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

```
30=To
for K in range(0,To)
        IF k%4==0:
           print (K*4)
        Else:
           print (K+3)
```

2 Rewrite the following code after removing all syntax error(s) and underline each correction done:

```
Runs=(10,5,0,2,4,3)
for I in Runs:
  if I=0:
     print(Maiden Over)
  else:
     print(Not Maiden)
```

3 Evaluate the following Python expression:
a) 2*3+4**2-5//2
b) 6<12 and not (20>15) or (10>5)

4 Predict the output of the following code:

```
S="LOST"
L=[10,21,33,4]
D={}
for I in range(len(S)):
  if I%2==0:
     D[L.pop()]=S[I]
  else:
     D[L.pop()]=I+3
for K,V in D.items():
  print(K,V,sep="*")
```

5 Write the Python statement for each of the following tasks using BUILT-IN functions/methods only:
(i) To insert an element 200 at the third position, in the list L1.
(ii) To check whether a string named, message ends with a full stop / period or not.

6 A list named studentAge stores age of students of a class. Write the Python command to import the required module and (using built-in function) to display the most common age value from the given list.

Weightage : 3 marks

1 Find the output of the following code:

```
Name="PythoN3.1"
 R=""
for x in range(len(Name)):
        if Name[x].isupper():
            R=R+Name[x].lower()
        elif Name[x].islower():
              R=R+Name[x].upper()
         elif Name[x].isdigit():
              R=R+Name[x-1]
         else:
              R=R+"#"
 print(R)
```

2 Predict the output of the Python code given below:

```
Text1="IND-23"
Text2=""
I=0
while I<len(Text1):
    if Text1[I]>="0" and Text1[I]<="9":
        Val = int(Text1[I])
        Val = Val + 1
        Text2=Text2 + str(Val)
    elif Text1[I]>="A" and Text1[I]<="Z":
        Text2=Text2 + (Text1[I+1])
    else:
        Text2=Text2 + "*"
    I+=1
print(Text2)
```

Programming Practice

1 Write a function, lenWords(STRING), that takes a string as an argument and returns a tuple containing length of each word of a string. For example, if the string is "Come let us have some fun", the tuple will have (4, 3, 2, 4, 4, 3)

2 Write a function countNow(PLACES) in Python, that takes the dictionary, PLACES as an argument and displays the names (in uppercase)of the places whose names are longer than 5 characters. For example, Consider the following dictionary

PLACES={1:"Delhi",2:"London",3:"Paris",4:"New York",5:"Doha"}

The output should be:
LONDON NEW YORK

3 Write a function LShift(Arr,n) in Python, which accepts a list Arr of numbers and n is a numeric value by which all elements of the list are shifted to left. Sample Input

Data of the list
Arr= [10,20,30,40,12,11],
n=2
Output:
Arr = [30,40,12,11,10,20]