



UT 2 , Computer Science, Class XI

Marks:25 Time:40 Minutes

Answer all the questions and upload the pdf for the question where attachment required.

* Required

* This form will record your name, please fill your name.

1. Write your name : *

2. Which of the following is/are not valid operations in python? *
(1 Point)

- Slicing a list
- Concatenation of a list and a tuple
- Slicing a dictionary
- Adding an element to an existing tuple.
- Modifying the data of a tuple containing strings and lists as it's elements.
- Naming the keys of a dictionary by strings or lists.

3. Which of the following creates a tuple? *
(0.5 Points)

- (i) tuple1=("a","b")
- (ii) tuple1[2]=("a","b")
- (iii) tuple1=(5)*2
- (iv) None of the above

4. Which is the correct form of declaration of dictionary? *
(0.5 Points)

- (i) Day={1:'monday',2:'tuesday',3:'wednesday'}
- (ii) Day=(1;'monday',2;'tuesday',3;'wednesday')
- (iii) Day=[1:'monday',2:'tuesday',3:'wednesday']
- (iv) Day={1'monday',2'tuesday',3'wednesday'}

5. What will be the output of following code?

```
tup1 = ("comp sc", "info practices", 2017, 2018)
tup2 = ( 5, 11, 22, 44, 9, 66)
print("tup1[0]:", tup1[0])
print("tup2[1:5]:", tup2[1:5]) *
```

(1 Point)

6. Creating a tuple from a set of values is called packing.

e.g: `t=(1,2,'A','B')`

Creating individual values from a tuple's elements is called _____.

e.g: `w,x,y,z=t *`

(0.5 Points)

7. What will the following code print :

```
D={'a':2,'b':3,'c':1}
```

```
E={ }
```

```
for c in D:
```

```
    E[D[c]]=c
```

```
print(E) *
```

(1 Point)

8. Write a program to input names of three cricketers and their age and store them in a dictionary T as the key value pair. Perform the following operations on the dictionary:

a) Display the name and age of all the cricketers.

b) Add a new key-value pair in this dictionary and display the modified dictionary.

c) Delete a particular cricketer from the dictionary.

d) Check if a cricketer is present in the dictionary or not.

e) Modify the age of an existing cricketer.

f) Display the dictionary in sorted order of names. *

(3 Points)

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9. Predict the output:

```
dct={ }  
dct[1]=1  
dct['1']=2  
dct[1.0]=4  
sum=0  
for k in dct:  
    print(k,sum)  
    sum+=dct[k]  
print(sum) *  
(2 Points)
```

10. The keys of a dictionary must be _____ and _____. *
(1 Point)

11. What will be printed:

```
>>>D={1:"One",2:"Two",3:"Three"}  
>>>D.keys()  
>>>D1=dict.fromkeys( [4,5,6,7] , 100)  
>>>D1 *
```

(2 Points)

12. Write a single statement each :

- a) Create a tuple T storing 5,'A',9
- b) Create a tuple K storing 8 *

(2 Points)

13. Fill in the blanks:

- a) The _____ function returns the number of elements in a tuple.
 - b) The _____ function cannot work with nested tuples.
 - c) The _____ function returns the index of an element in a tuple.
 - d) The _____ function merges key:value pairs from a new dictionary into the original dictionary.
 - e) The _____ function inserts key:value pair only if key doesn't already exist. *
- (2.5 Points)

14. Write a program to input n numbers from the user. Store these numbers in a tuple. Print the maximum and minimum number from this tuple. *
(3 Points)

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15. Select the true statements from the following: *
(2 Points)

- '=' can be used for comparing two tuples or two dictionaries.
- '>' can be used for comparing two tuples or two dictionaries.
- `del d["one"]` is used to delete the key-value pair having "one" key.
- `del T[2]` is used to delete the third element of tuple T.
- In Python a tuple can have two elements with same values.
- In Python a dictionary can have two same keys with different values.
- In Python a dictionary can have two different keys with same values.

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

```
k={}
k[(1,2,4)] = 5
k[(4,2,1)] = 7
k[(1,2)] = 6
k[(4,2,1)] = 2
tot = 0
for i in k:
    tot=tot+k[i]
print(len(k)+tot) *
```

(0.5 Points)

- a) 25
- b) 17
- c) 16
- d) Tuples can't be made keys of a dictionary

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

```
a={'B':5,'A':9,'C':7}
>>> sorted(a) *
```

(0.5 Points)

- a) ['A','B','C']
- b) ['B','C','A']
- c) [5,7,9]
- d) [9,5,7]

18. Give the output:

```
my_tuple = (4, 2, 3, [6, 5])
```

```
my_tuple[3][0] = 9
```

```
print(my_tuple) *
```

(0.5 Points)

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

```
tup1=((1,2,))*7
```

```
print(len(tup1[3:8])) *
```

(0.5 Points)

20. Write a short python code using for loop to create a tuple containing the squares of the integers 1 through 50. *

(1 Point)

