



CYCLIC TEST - 3 2024-25

Name			Subject: CS	Maximum Marks: 25
Class: XI	Section:	Roll No.	Duration: 1 Hr.	Date:

SECTION A

(1 Mark each)

Multiple Choice Questions:

- Which of the following returns the element myList[-1] from the list myList?
a) del myList b) myList.pop() c) myList.remove() d) pop(myList)
- Which of the following is a mutable data type?
a) list b) tuple c) integer d) string
- Identify an invalid tuple from the following.
a) 1,2,3 b) (0,0,0) c) (1,) d) (10)
- Consider the following list:
Lst=[1,5,0,15,30,50]
print(Lst[1:2]+Lst[3:6],Lst)
a) [5, 15, 30, 50] [1, 5, 0, 15, 30, 50]
b) [5, 15, 30, 50] [5, 15, 30, 50]
c) [1,5, 0, 15, 30] [1, 5, 0, 15, 30]
d) [1,5, 0, 15, 30] [1, 5, 0, 15, 30,50]
- State True/False - " The function tuple() is used to convert a sequence of elements in to tuple."
a) True b) False c) None d) None of these

SECTION B

(2 Marks each)

Short Answer Questions:

- Differentiate list and tuple with suitable example.
- Differentiate append () and extend () functions with suitable example.
- Define any two list methods to delete elements from a list, once the index is known. Explain with suitable example.
- Define any two tuple inbuilt functions with suitable example.

[PTO]

SECTION C**(1 Mark each)****Assertion and Reason Questions:****Directions:**

In the following questions, a statement of Assertion (A) is followed by a statement of Reason(R). Mark the correct choice as:

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true and R is not the correct explanation of A.
- C. A is true but R is false.
- D. A is false but R is true.

10. (A): '+' is an operator that can be used to concatenate a pair of list.
(R): '+' is a generic operator for concatenating lists, strings, and tuples.
11. (A): The method extend() can insert elements at any position in the list.
(R): extend() only takes an iterable sequence as an argument.

SECTION D**(3 Marks each)****Case-Based Questions:**

12. What will be the output produced on execution of the following code?

```
data=[ 'WHAT', 1, 'IS', 2, 'THIS', 3, 'PLEASE', 4 ]
alpha=''
beta=0
for c in range(1,7,2):
    beta=beta+c
    alpha=alpha+data[c-1]+'!!'
    beta=beta+data[c]
print(alpha,beta,sep='#')
```

13. Will the following code execute successfully? If yes, what will be the output produced on execution of the code? If not, mention the error in the code.

```
Mylist=[1,0,-1]
newList=Mylist*3
newList.insert(-1,5)
value=newList.index(4)
print(value)
```

[PTO]

SECTION E

(4 Mark)

14. Consider the following assignment statement:

Lst=list('Term 1 Exam')

Match the following statement with the outputs that will be produced when they are executed.

- | | |
|-------------------------|--------------------------------|
| a) print(Lst[1:12:3]) | i) [] |
| b) print(Lst[:8]) | ii) ['e', ' ', 'E', 'm'] |
| c) print(Lst[-6:0]) | iii) ['x', 'E', ' ', '1', ' '] |
| d) print(Lst[-3:-8:-1]) | iv) ['T', 'e', 'r'] |
