

**Computer Science [SEC]****[NEP-CBCS]****B.Sc. First Semester End Examination-2023****PAPER: COS-SEC01T****[Python Programming]****Full Marks: 20****Time: 01 Hr.***The figures in the right hand margin indicate marks**Candidates are required to give their answers in their own words as far as practicable**Illustrate the answers wherever necessary***A. Answer any FIVE questions of the following: 5x2= 10**

- i) In python object oriented programming? Why?
- ii) Differentiate between list and tuple.
- iii) What is Ternary operator? Give an example.
- iv) What is identifier? Give an example.
- v) What will be the output of the following program segment

```
c = 16
```

```
d = c^34
```

```
print(d)
```

Discuss your answer with justification.

- vi) What is dictionary data type in python?
- vii) Find the value of a , if  $a=(45*3)//6/3$ .
- viii) What is various data type in python?

**B. Answer any TWO questions of the following: 2x5 = 10**

- 1) What is range ()? Explain for loop statement with example. 2+3
- 2) What is string? What are the indexing used in string? Write about two function 'Join ()' and 'partition ()'. 1+2+2
- 3) Write a program that store and display records of 10 students using dictionary.
- 4) Explain 'break' and 'continue' statement with example. 2.5+2.5
- 5) Explain while statement and give an example of infinite while loop. 3+2
- 6) What is mutable and Immutable data type in python. 3+2

