

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEM2024

M.Sc. (IInd Semester) Examination, 2021

CYBER SECURITY

Paper - MCSEC-204

(Python)

Time : 1½ Hours]

[Maximum Marks : 40

Note :- This question paper contains *three* Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all the *ten* questions carries 1 mark each. The answer should not exceed **50** words.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer *five* questions by selecting at least *one* question from each Unit. Each question carries **3** marks. Answers should not exceed **200** words.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer *three* questions by selecting *one* question from each Unit. Each question carries **5** marks. The answer should not exceed **500** words.

Section-A

1. (i) What do you mean by Python Interpreter ?

(ii) Define Indentation in Python.

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- (iii) Write any *two* scalar data types in Python.
- (iv) What is Type Casting ?
- (v) What do you mean by Namespaces in Python ?
- (vi) Define the concept of global scope in Python.
- (vii) What do you mean by File Handling in Python ?
- (viii) How can we insert an element at given index in Python ?
- (ix) How do you delete a file in Python ?
- (x) How can you concatenate *two* tuples in Python ?

Section-B

Unit-I

- 2. What are Comments ? Explain types of comments in Python.
- 3. What is while loop in Python ? Explain with an example.
- 4. Explain the following :
 - (a) Continue Statement
 - (b) Break Statement
 - (c) Pass Statement

Unit-II

- 5. Write a function to find reverse of a given number.
- 6. Explain Exception handling in Python.
- 7. Explain Numpy with example in Python.

Unit-III

- 8. Define the Python Pandas.
- 9. Explain dataframe in Pandas.
- 10. What are the significant features of Pandas's library ?

Section–C

Unit–I

11. Write a Python program to find area of given circle.
12. What is Python ? Explain uses of Python in detail.

Unit–II

13. What is Lambda Function ? Explain with suitable example.
14. Explain any *five* methods used for dictionary in Python.

Unit–III

15. Define the different ways a dataframe can be created in Pandas.
16. How will you add a column to a Pandas's dataframe ? Explain with example.