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Total No. of Questions : 16 ]

[ Total No. of Printed Pages : 3

# **PSJA-4061**

**M.Sc. Computer Science (IVth Semester)  
Examination, June-2025**

## **(B) INTRODUCTION TO CYBER SECURITY**

**Paper - FS-COMP-MSC-CS-EO-406(b)**

*Time : 3 Hours ]*

*[ Maximum Marks : 40*

श्री जैन (पी. एच. डी.) जी. ए. ए. जी. ए. ए. जी. ए. ए.

The question paper contains three Sections.

### **Section-A**

**(Marks : 1 × 10 = 10)**

**Note :-** Attempt all *ten* questions (Answer limit **50** words). Each question carries  
1 mark.

### **Section-B**

**(Marks : 3 × 5 = 15)**

**Note :-** Answer any *five* questions by selecting at least *one* question from each Unit.  
(Answer limit **200** words). Each question carries **3** marks.

### **Section-C**

**(Marks : 5 × 3 = 15)**

**Note :-** Answer any *three* questions by selecting *one* question from each Unit.  
(Answer limit **500** words). Each question carries **5** marks.

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## Section-A

1. (i) Name any *two* search engines.
- (ii) What do you mean by borderless world ?
- (iii) Which command is used to print working directory in Linux ?
- (iv) Write one line of code in Python for the following :  
$$a = 5^7$$
- (v) Write the syntax to define a dictionary in Python.
- (vi) Is Python case-sensitive language ?
- (vii) Are viruses and malwares same ?
- (viii) What do you know by hacking ?
- (ix) What do you understand by stalking ?
- (x) What is the meaning by trespassing ?

## Section-B

### Unit-I

2. Explain vulnerability assessment and penetration testing.
3. Describe professional ethics.
4. Explain any *two* digital payment modes.

### Unit-II

5. Write a function to find out the cube of an integer.
6. Write a program in Python to print the sum of first 10 natural numbers.
7. Explain how do we create objects in Python ?

### **Unit-III**

8. Explain the penalty for hacking with computer system.
9. Justify the need for cyber regulations in your words.
10. What are the main human rights impacted in context of cybercrime.

### **Section-C**

#### **Unit-I**

11. Write short notes on each of following :
  - (a) Auditing
  - (b) Deep web
12. Write any *five* Linux Terminal commands and explain their usage.

#### **Unit-II**

13. Write a program in Python to explain the usage of lists and related operations.
14. Write a program in Python to explain the usage of dictionaries and related operations.

#### **Unit-III**

15. Explain Sec. 66 and 67 of IT Act, 2000 and penalties related to these sections, in case of violation.
16. Name any *two* key international organizations that work for International Co-operation in investigating cybercrimes. Explain the initiatives that are taken by them in order to control cybercrimes.