5. (a) What do you mean by Intrusion Detection System? Explain different types of IDS. (5)

(b) "In the age of Information Communication Technology, right to privacy is being infringed with various means" Explain. What are the provisions which are in consonance with right to privacy? (5)

(c) Write short note on cryptology, cryptanalysis and cipher text. (5)

6. (a) Differentiate between the following (**any three**) :

(i) Active and Passive Attack

(ii) DoS and DDoS (5)

(b) Define various forms of financial crimes. What is their effect on the individuals and the companies? (5)

(c) "A malicious attack necessitates each of the following: method, motive, and opportunity" - Justify with the help of an information security attack scenario. (5)

7. Write short note on :- (3×5=15)

(a) Virus (b) Trojan Horse

(c) Logic bomb (d) Trapdoor

(e) Worm

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3510 **J**

Unique Paper Code : 6332493601

Name of the Paper : INFORMATION SECURITY AND CYBER LAWS

Name of the Course : **Bachelor of Vocation (B.Voc). (NEP-UGCF)**

Semester : VI

Duration : 3 Hours Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. **Section A** (Question No. **1**) is compulsory.
3. Attempt any **four** questions from **Section B** (Questions **2** to **7**).
4. Parts of a question must be answered together.

Section A

1. (a) What do you understand by password cracker? List any two cracker program. (3)

(b) Write a short note on information security. (3)

(c) Explain advantages and limitations of biometrics. (3)

(d) What is session hijacking? (3)

(e) Define the term cyber jurisdiction in detail. (3)

(f) What do you understand by hacker? Explain how hackers are classified into different Categories. (3)

(g) Explain types of cybercrime. (3)

(h) List three advantages of fingerprint biometric. (3)

(i) Identify each of the following passwords as weak or strong. Justify your answer in each case. (3)

(i) 12345678

(ii) abc 123

(iii) A*B&D$C#

(j) Enumerate any three limitations of firewalls. (3)

Section B

2. (a) What is cryptography? Explain. (5)

(b) Explain difference between symmetric and asymmetric Encryption. (5)

(c) What do you understand by risk? What are the strategies for dealing with risk? (5)

3. (a) Enumerate the three security goals and describe the relationship between them with the help of a diagram. Also, give an example of each goal of security. (5)

(b) What is a substitution cipher? Encrypted message for the plaintext. (5)

INFORMATION SECURITY AND CYBER LAWS using rail fence cipher with key 3.

(c) Encrypted message for the plaintext "Do not judge a book by its cover" using Caesar cipher with key 3. Give one disadvantage of Caesar cipher. (5)

4. (a) What is the difference between vulnerability and threat? Explain different type kinds of threats. (5)

(b) What is the punishment under following Section of ITAA2008 : (10)

(i) 66B (ii) 66F

(iii) 72 (iv) 65

(v) 67B