

TRIBHUVAN UNIVERSITY
FACULTY OF MANAGEMENT

Office of the Dean

September 2017

Full Marks: 40

Time: 2 hrs.

BIM / Sixth Semester / IT 225: Computer Security and Cyber Law

Candidates are required to answer all the questions in their own words as far as practicable.

Group "A"

1. Brief Answer Questions:

[10 × 1 = 10]

- i. Define Cipher text.
- ii. What are botnets?
- iii. Decrypt the given Cipher Text "ai ampp exxego ex qmhrmkix". Use Caesar Cipher, K = 4
- iv. Define active attack with example.
- v. State Biba Integrity Model.
- vi. Who is clandestine user?
- vii. Write down the drawbacks of digital signature.
- viii. What is cyberbullying?
- ix. List the limitations of SMTP.
- x. What are the main goals of data integrity?

Group "B"

Short Answer Questions:

[5 × 4 = 20]

2. Why do we use VPN? Explain its types.
3. What is Computer Crime? Explain its types.
4. What is Intrusion Detection System? Explain the techniques for intrusion detection.
5. What is virtual machine? How Sandboxing play a vital role as computer defense mechanism?
6. Write short notes on:
 - a) Responsible Internet Citizens
 - b) DDOS

Group "C"

Comprehensive Questions:

[2 × 5 = 10]

7. As an IT Officer of Tribhuvan University, design a suitable IT policy for a secure network and appropriate use of available IT services.
8. Write the principles for the design and implementation of Security Mechanism and Explain four of them.

