# I KIBHU VAN UNIVEKSII Y

## FACULTY OF MANAGEMENT

Office of the Dean

September 2019

Full Marks: 40 Pass Marks: 18 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:

 $110 \times 1 = 101$ 

- i. Find the totient value of the number 11.
- ii. What is disruption?
- iii. Write down the uses of Proxy Server.
- iv. What is Replay attack?
- v. Write down the factors that make data sensitive.
- vi. Differentiate between cryptographic function and hash function.
- vii. What types of services are kept in DMZ?
- viii List the characteristics of PGP.
- ix. How does virus differ with trojan horse?
- What is Digital Forensics?

#### Group "B"

#### Exercise Problems:

 $15 \times 4 = 201$ 

- 2. Explain the working mechanism of Kerberos.
- 3. How can we reduce the inappropriate internet activities?
- Encrypt the sentence "ATTACK IS POSTPONED" using Caesar Cipher where K = 3. Also 4. illustrate the Brute Force Attack to find the plain text from cipher text.
- Explain the Principle of Least Privilege with suitable example. 5.
- Explain the features of SET (Secure Electronic Transaction). 6.

### Group "C"

#### Comprehensive Ouestions:

 $12 \times 5 = 101$ 

- Define access control. Explain the case of loss of integrity, loss of availability, loss of confidentiality with example.
- 8. Why IPSec is widely used? Explain its operation mode.

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