

Seat No. : \_\_\_\_\_

# SM-113

September-2020

B.Sc., Sem.-VI

## 311 : Computer Science (Cyber Security)

Time : 2 Hours]

[Max. Marks : 50

- Instructions :**
- (1) All Questions in **Section-I** carry equal marks.
  - (2) Attempt any **THREE** questions in **Section-I**.
  - (3) Question-9 in **Section-II** is **COMPULSORY**.

### Section – I

1. Write the following :
  - (A) Explain basic of computer in detail. 7
  - (B) Explain cryptography in detail. 7
2. Write the following :
  - (A) Explain any seven DOS command. 7
  - (B) What is auditing ? Also explain audit in computerized environment. 7
3. Write the following :
  - (A) What is cyber security ? Explain need of cyber security. 7
  - (B) Explain cyber security management models. 7
4. Write the following :
  - (A) Explain security governance. 7
  - (B) What is cybercrime ? Explain Classification of cybercrime. 7
5. Write the following :
  - (A) Explain concept of cybercrime origin. 7
  - (B) What is Attack ? Explain security attacks and any three types in details. 7

6. Write the following :
- (A) Explain computer security and information assurance in detail. 7
- (B) Explain characteristics of firewalls. 7
7. Write the following :
- (A) Explain prevention of cybercrime. 7
- (B) What is a Firewall ? Explain its types in details. 7
8. Write the following :
- (A) Explain information security roles and positions. 7
- (B) What is CIA ? Explain CIA principal in detail. 7

### Section – II

9. Write the following : (Any **Four**) 8
- (1) Full form of DOS \_\_\_\_\_.
- (2) What is System-based attacks.
- (3) Compromising confidential information comes under \_\_\_\_\_.
- (a) Bug (d) Threat
- (c) Vulnerability (d) Attack
- (4) \_\_\_\_\_ is the latest technology that faces an extra challenge because of CIA paradigm.
- (a) Big data (b) Database systems
- (c) Cloud storages (d) Smart dust
- (5) What is public key and private key ?
- (6) Define phishing.
- (7) Risk and vulnerabilities are the same things.
- (a) True (b) False
- (8) Packet filtering firewalls are deployed on \_\_\_\_\_.
- (a) routers (b) switches
- (c) hubs (d) repeaters
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