

CDOE
BACHELOR OF COMPUTER APPLICATIONS (CBCS-2019 COURSE)
B.C.A. SEM - V : WINTER :- 2021
SUBJECT: ELECTIVE-I : INFORMATION SECURITY - INFORMATION
SECURITY CONCEPTS

Day : Monday
Date 28-02-2022

W-21891-2021

Time : 02:00 PM-05:00 PM
Max. Marks: 60

N.B.

- 1) Q.No. 4 from Section I is **COMPULSORY**.
 - 2) Answer **ANY TWO** questions from Q.1,2,3 in Section – I.
 - 3) Answer **ANY TWO** questions from Q.5,6,7 in Section – II.
 - 4) All questions carry **EQUAL** marks.
 - 5) Answer to both the sections should be written in **SAME** answer book.
 - 6) draw a labeled diagram **WHEREVER** necessary.
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SECTION – I

Q.1 Answer the following : **(6 marks x 2 = 12 marks)**

- a) What is the importance of Integrity of Data? What are different methods to ensure Data Integrity?
- b) Explain different Security Principles.

Q.2 Answer the following : **(6 marks x 2 = 12 marks)**

- a) Explain different types of Network Threats.
- b) How VPN ensure secure communication between two systems?

Q.3 Answer the following : **(6 marks x 2 = 12 marks)**

- a) Explain Linux/UNIX security features in detail.
- b) Explain security features of MS SQL.

Q.4 Write short notes on **ANY THREE** of the following : **(4 marks x 3 = 12 marks)**

- a) Fire Protection
- b) Equipment Failure Protection
- c) Authentication
- d) Authorization
- e) Windows Security
- f) Security models

SECTION – II

Q.5 Answer the following : **(6 marks x 2 = 12 marks)**

- a) Explain various Web Application Vulnerabilities.
- b) Explain secure coding techniques for web applications.

Q.6 Answer the following : **(6 marks x 2 = 12 marks)**

- a) Explain various features of ITIL framework.
- b) What is the importance of continuous security testing and assessment in secure coding practices?

Q.7 Answer the following : **(6 marks x 2 = 12 marks)**

- a) What are Firewalls? Explain in detail types and functioning of Firewalls.
- b) Explain the security requirements in Wireless Networks.
