

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)

B.C.A. Sem-V : : SUMMER - 2022

SUBJECT : INFORMATION SECURITY CONCEPTS

Day : Wednesday
Date : 01-06-2022

S-22708-2022

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) Explain CIA triad for Information Security?
- b) Explain in brief Principles and Models of Security.

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

- a) Describe in detail Physical Security parameters for environment security.
- b) What are web applications? Write any four points to be considered for web application security.

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

- a) Describe in detail Authentication and Authorization.
- b) Describe in detail about Linux Security.

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

- a) Virtual Private Network
- b) OS security
- c) ITIL framework
- d) WLAN security
- e) Cyber Crime
- f) Firewall

SECTION – II

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

- a) Explain in detail parameters to be considered while designing secure network.
- b) What are Network Threats? How to safeguard any organisation from Network Threats?

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

- a) Database Administrator of ABC Networks wants to ensure security of databases. Suggest the parameters he should consider.
- b) What is Firewall? Explain in detail about types and functioning of Firewall?

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

- a) What are compliance standards? Explain in detail about ISO 27001 Standard?
- b) Suggests secure coding techniques for a Web Application.
