

**BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)**  
**B.C.A. Sem-V : WINTER : 2021**  
**SUBJECT: INFORMATION SECURITY CONCEPTS**

Day : **Monday**  
Date **31-01-2022**

**W-22708-2021**

Time : 10:00 AM-01:00 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.

**SECTION – I**

- Q.1** Answer the following : (6 marks x 2 = 12 marks )
- a) Explain Information Security and its need.
  - b) What is the importance of Information Security in an organisation?
- Q.2** Answer the following : (6 marks x 2 = 12 marks )
- a) What is Authentication? Explain different ways to authenticate the user.
  - b) Compare Authentication with Authorization.
- Q.3** Answer the following : (6 marks x 2 = 12 marks )
- a) What is Physical Security? Explain the various components of Physical Security.
  - b) What is Database Security? Explain the measures to ensure Database Security.
- Q.4** Write short notes on **ANY THREE** of the following : (4 marks x 3 = 12 marks )
- a) Windows security
  - b) Secure coding techniques
  - c) WLAN Security
  - d) Cyber Crime
  - e) CIA Triangle
  - f) Network Threats

**SECTION – II**

- Q.5** Answer the following : (6 marks x 2 = 12 marks )
- a) Explain different Web Application Vulnerabilities.
  - b) What is the need of continuous security testing and assessment to ensure information security in an organization?
- Q.6** Answer the following : (6 marks x 2 = 12 marks )
- a) What are compliance standards? Explain briefly IT Act?
  - b) Explain features of ISO 27001.
- Q.7** Answer the following : (6 marks x 2 = 12 marks )
- a) Explain the role of Firewalls in protecting organizational network.
  - b) Suggest parameters for secure Network design of a pharmaceutical company whose branches are spread over country.

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