

CDOE
MASTER OF COMPUTER APPLICATIONS (CBCS-2019 COURSE)
M.C.A. SEM - IV : WINTER :- 2021
SUBJECT: INFORMATION SECURITY

Day : Tuesday
Date 15-02-2022

W-22232-2021

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

N.B.

- 1) **Q.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) Answers to Both the section should be written **SAME** answer book.
- 6) Draw a labeled diagram **WHEREVER** necessary.

SECTION-I

- Q.1** Answer the following (6 Marks X 2= 12)
- a) How organizations manage the Information?
 - b) Explain the role of IT policy for protecting Information in an organization.
- Q.2** Answer the following (6 Marks X 2= 12)
- a) Explain different types of Networks and their security issues.
 - b) What is Denial of Service (DoS) attack? How you can prevent DoS attack?
- Q.3** Answer the following (6 Marks X 2= 12)
- a) Explain Advanced Encryption Standards (AES) and its applications.
 - b) What is the purpose of Hashing? Explain hash function (SHA-256).
- Q.4** Write short notes on the following (**ANY THREE**): (4MarksX 3 = 12 Marks)
- a) Trojan Horse
 - b) Cyber space
 - c) Message Authentication Code
 - d) Cyber Crimes
 - e) SPAM e-mail
 - f) Basic concept of MIS
 - g) Types of Information

SECTION-II

- Q.5** Answer the following (6 Marks X 2= 12)
- a) Explain the classification and management of information assets based on their importance.
 - b) What is Risk? Explain the process of information assets ledger Risks analysis.
- Q.6** Answer the following (6 Marks X 2= 12)
- a) Consider yourself as an Information Security officer in XYZ company. What are different Information Security measures you will adopt in your organization?
 - b) Explain the information security Regulations on measures to be taken against computer virus infection.
- Q.7** Answer the following (6 Marks X 2= 12)
- a) Consider yourself as an Information Security officer in XYZ company. How you will reduce the risk in information loss and keep the information safe from unauthorized users and threats.
 - b) What are various online business threats? Suggest safely types for online Business.

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