

CDOE
MASTER OF COMPUTER APPLICATIONS (CBCS-2018 COURSE)
M.C.A. Sem - IV : WINTER :- 2021
SUBJECT: INFORMATION SECURITY

Day : Tuesday
Date 15-02-2022

W-21092-2021

Time : 02:00 PM-05:00 PM
Max. Marks: 70

N.B:

- 1) Attempt **ANY FOUR** questions from Section-I and **ANY TWO** from Section-II.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Answers to both the sections should be written on **SAME** answer book.
-

SECTION-I

- Q.1)** How organizations manage the information? What is the role of IT policy in Information Security? **(10)**
- Q.2)** What are various security issues related to networks? What should be the network policy for protecting important resources of the network? **(10)**
- Q.3)** Explain man-made threats with appropriate examples. **(10)**
- Q.4)** Define Cryptography? Explain symmetric key cryptography and public key cryptography. **(10)**
- Q.5)** Discuss human assets and physical assets with respect to Information Security Management. **(10)**
- Q.6)** Write a note on **ANY TWO** of the following: **(10)**
- a) Online business threats.
 - b) Secure MIME.
 - c) AES.
 - d) DoS attack.

SECTION-II

- Q.7)** Suppose you are Information security officer in an organization, which is operating in different parts of a country: **(15)**
- a) Suggest different types of network operating systems.
 - b) Discuss different security issues.
 - c) Describe the network policy for protecting important resources of organization.
- Q.8)** a) Explain the hash function (SHA 256). **(07)**
b) Write a note on cyber-crime and cyber laws. **(08)**
- Q.9)** Define malware and its types. Discuss preventive actions to protect against malware attack. **(15)**