

- 2. (a) What is cyber espionage? Discuss common cyber espionage tactics. How it can be detected and prevented?
- (b) Define vulnerability? Explain traffic probe and vulnerability probe in vulnerability scanning.
- 3. (a) What is Cyber Stalking? Mention it's types along with its working procedure.
- (b) What is network reconnaissance? How is it done? Discuss various forms of reconnaissance.
- 4. (a) What is NAT? Discuss its different types? Write down the steps to specify the working of NAT.
- (b) What is password manager? How does it work? List some of popular password managers.
- 5. (a) What is Web vulnerability? How it can be exploited? Discuss the tools used to scan Web vulnerabilities.

Unit - II

Unit - I

- 6. (a) What is data contamination? How it can be controlled? Discuss.
- (b) What important role SQL injection plays as cyber crime investigation approach? Explain the working of SQL injection.
- 7. (a) What is Spyware? Discuss its different categories. How spyware is different from virus?
- (b) Define Digital forensics. List out the steps of digital forensics.
- 8. (a) What is cryptography? What are its main principles? Explain Symmetric-Key algorithm of Cryptography in brief.
- (b) What is blockchain? How it works? Explain different types of Blockchain.

Unit - IV

Unit - III

(4)

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9. (a) What is Sidechain? How a sidechain can be created? Discuss the setup of sidechain compression.
- (b) How blockchain is used in medical record management system? Discuss.

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MCA 4th Semester, 2 Year Course (w.e.f. 2020/21)  
Examination, May-2023

CYBERSECURITY AND BLOCKCHAIN  
TECHNOLOGY (I)

Paper - 21MCA24DA1

Time allowed : 3 hours] [Maximum marks : 80]

Note: Attempt five questions in all. Question no. 1 is compulsory. In addition to compulsory question, attempt four more questions selecting one question from each unit.

1. Compulsory Question :

- (a) What is cyber terrorism?
- (b) What are the elements of cyber security and how does it work?
- (c) Discuss the working of Firewall.
- (d) What is Open SSL used for?
- (e) What are attack vectors?
- (f) What is salami slicing?
- (g) Why is digital signature used?
- (h) What is the difference between distributed ledger and blockchain?

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P.T.O.