SUPPLEMENTORY EXAMINATION

[MCA] NOVEMBER – DECEMBER 2022

Paper Code: MCA 253	**Subject: Cyber Security And Cyber Laws**
Time: 03:00 Hrs	*Maximum Marks: 75*

Note: Attempt any five questions including question 1, which is compulsory.

Q1. Answer the following briefly: **(2.5×10 = 25)**

(a) What is cyberterrorism? Compare cyber espionage and cyberwarfare.

(b) What is Cyber squatting? Categorize different types of Cyber squatting.

(c) Contrast cyber defamation with cyber stalking.

(d) List any 3 rules to be abided to save from credit card fraud.

(e) What is role of polymorphic generators in polymorphic virus?

(f) List examples of threats by Trojans?

(g) Elaborate steganography. Contrast steganography with cryptography.

(h) How do we realize that our system is infected by malware?

(i) What is cryptographically generated address? How do they enhance the security?

(j) Compare and contrast trade name and trade secret.

UNIT 1

Q2. (a) How can we classify password cracking attacks? Identify any three non electronic attacks and explain them. **(6.5)**

(b) Elaborate Bluetooth hacking. Discuss four common attacks that have emerged in hacking Bluetooth. **(6)**

OR

Q3. (a) State the difference between virus and worm? List different types of virus And explain them. **(6.5)**

(b) What is social engineering? Explain any three examples each of human based and computer based social engineering. **(6)**

UNIT 2

Q4. (a) Explain key logging? Enlist types of keyloggers and elaborate their working. Also identify the tool that can detect keylogger. **(6.5)**

(b) Elaborate the purpose of a proxy server? Contrast anonymizer with proxy server. **(6)**

OR

Q5. (a) Elaborate DoS attack. Explain Flood attack, Smurf attack and teardrop attack in DoS. Compare DDos with PDoS. **(6.5)**

(b) What is SQL injection? How is it executed? How can we protect data from this attack? **(6)**

UNIT 3

Q6. (a) Elaborate the purpose of firewall. How can we classify firewalls according to different OSI Layers? Contrast and compare stateful and stateless firewall. **(6.5)**

(b) Enlist web application vulnerabilities. Elaborate Cross site scripting And Cross site request forgery with suitable examples. **(6)**

OR

Q7. (a) Discuss different types of Intrusion detection system. How is Intrusion detection system different from Intrusion prevention system? Identify purpose of SNORT. **(6.5)**

(b) What do you mean by access management? Explain all 3 access control models and elaborate with suitable examples. **(6)**

UNIT 4

Q8. (a) Enlist and elaborate the positive and weak aspects of Information Technology Act 2000. **(6.5)**

(b) Discuss digital forensics life cycle. Enlist its significance. **(6)**

OR

Q9. (a) Discuss the challenges in Computer Forensics. Discuss role of forensics on social networking sites. **(6.5)**

(b) Discuss the terms Intellectual Property rights, Trademarks, Domain name and Patents with suitable examples. **(6)**

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