



CBCS SCHEME

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16/17MCA354

Third Semester MCA Degree Examination, Dec.2019/Jan.2020 Cyber Security

Time: 3 hrs.

Max. Marks: 80

Note: Answer FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Define Cybercrime. What are the two prevalent attack in cybercrime? (05 Marks)
b. Who are Cybercriminals? Explain different types of cybercriminals. (04 Marks)
c. How cybercrime are classified into many types? Explain them. (07 Marks)

OR

- 2 a. How criminal plan the attacks? (08 Marks)
b. Write a short note on Indian IT Act 2000. (02 Marks)
c. Explain Botnets and Attack vector. (06 Marks)

Module-2

- 3 a. Write a note on Keyloggers, Anti Keyloggers and Spyrvares. (08 Marks)
b. What are the basic stages of cyber attack? Explain them in details. (08 Marks)

OR

- 4 a. Expand VIRUS. Explain different types of virus. (06 Marks)
b. What are the general guidelines applicable to the password policies of an organization? (05 Marks)
c. What is SQL injection? How can you prevent from SQL injection attack? (05 Marks)

Module-3

- 5 a. Define phishing and its working principles. (06 Marks)
b. How buffer overflow? Can be created or occurred and explain its types. (04 Marks)
c. What are the different types of phishing scam? Explain any two of them. (06 Marks)

OR

- 6 a. Explain the Myth and Fact about identify theft. (10 Marks)
b. What are the different types of identity theft? Explain any two. (06 Marks)

Module-4

- 7 a. Explain any five popular command line utilities. (10 Marks)
b. Explain nc command in details. (06 Marks)

OR

- 8 a. Explain the following: i) SSH ii) Datapipe iii) Fpipe. (12 Marks)
b. How can you create backdoor in your own system? (04 Marks)

Module-5

- 9 a. Explain any two freely available Snort plug-in in details. (08 Marks)
b. Name five Snort rules and explain. (05 Marks)
c. How Snort's packet logger and Snort's inline mode works? (03 Marks)

OR

- 10 a. What are the two common network security software components that you can equate to firewall like functionality, explain them. (03 Marks)
b. Differentiate between packet firewall and firewall. (03 Marks)
c. What are the ways to enforce a rule for network traffic in firewall? (04 Marks)
d. Explain NAT and Port forwarding. (06 Marks)
