

CBCS Scheme

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16MCA354

Third Semester MCA Degree Examination, June/July 2018 Cyber Security

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. What is Cyber Security? Explain how Cyber Crimes are classified. (08 Marks)
b. What are Botnets? How they are useful? (08 Marks)

OR

- 2 a. What are Attack Vectors? How they are launched? (08 Marks)
b. Explain how criminals plan the attack. (08 Marks)

Module-2

- 3 a. Write short notes on : i) Anonymizers ii) Keyloggers. (08 Marks)
b. Explain the concept of virus and worms. How they are different? (08 Marks)

OR

- 4 a. Explain different levels of Dos attack. (08 Marks)
b. Explain steps in SQL injection attack and how to prevent it. (08 Marks)

Module-3

- 5 a. What is Phishing? Explain different methods of phishing. (08 Marks)
b. Explain different phishing techniques in detail. (08 Marks)

OR

- 6 a. Explain different types of Identity Theft. (08 Marks)
b. Explain Life cycle of Digital forensics. (08 Marks)

Module-4

- 7 a. Explain Tee and Xargs commands. (04 Marks)
b. What is Mac ports? Explain how to install and manage parts. (06 Marks)
c. What is Cygwin? Explain how to build and run windows applications. (06 Marks)

OR

- 8 a. What is Net cat? What are the uses of net cat? Explain any 4 net cat command options. (08 Marks)
b. Write short notes on : i) Data pipe ii) Fpipe. (08 Marks)

Module-5

- 9 a. Explain Fire wall and how it protects a network. (06 Marks)
b. Explain packet characteristics of network traffic. (06 Marks)
c. Mention the difference between state less and stateful firewalls. (04 Marks)

OR

- 10 a. With the help of diagram, explain how NAT solves the routing problem. (08 Marks)
b. Explain Vpn and Snort rules in detail. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.