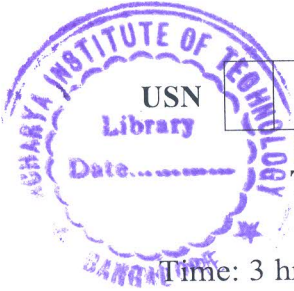


# CBCS SCHEME

16/17MCA354



## Thrid Semester MCA Degree Examination, June/July 2019 Cyber Security

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. Explain in detail how cyber crimes are classified. (10 Marks)  
b. Differentiate active and passive attacks. (06 Marks)

OR

- 2 a. Explain various IP section, chapter names, crimes and punishments under IT ACT 2000. (08 Marks)  
b. What are attack vector? How are they launched? (08 Marks)

### Module-2

- 3 a. Explain the concept of virus and worms. Differentiate them. (08 Marks)  
b. What are proxy server and Anomy misers? When do we use them explain. (08 Marks)

OR

- 4 a. Explain the basic stages of attacks involved in cybercrime. (08 Marks)  
b. Explain different phishing techniques in detail. (08 Marks)

### Module-3

- 5 a. Describe the steps in SQL injection attack and how to prevent it. (08 Marks)  
b. What are identity thefts? Explain any three types of ID thefts. (08 Marks)

OR

- 6 a. Explain the life cycle of Digital forensic. (08 Marks)  
b. Write a note on Geo tagging. Explain its advantages and disadvantages. (08 Marks)

### Module-4

- 7 a. What is Netcat? Explain the uses of Netcat and any four Netcat command option. (08 Marks)  
b. Explain the directory structures and file permissions in Unix. (08 Marks)

OR

- 8 a. What is Cygwin? Explain how to build and run windows applications. (08 Marks)  
b. Describe the roles of filters in Unix with example. (08 Marks)

### Module-5

- 9 a. Explain VPN and snort rules in detail. (08 Marks)  
b. Write a note on Linux fire wall. (08 Marks)

OR

- 10 a. Describe Firewall and how it protects a network. (08 Marks)  
b. Explain : i) Packet filters ii) NAT iii) Port forwarding. (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.