Subject Code: CBD 4003 / CCM4003   Duration: 3 hours
Subject: Foundation Course in Application and Cloud Security
Max. Marks: 100

Instructions
- All Questions are compulsory
- The Question paper consists of 2 sections - Part A contains 10 questions of 2 marks each. Part B consists of 5 questions of 16 marks each.
- There is no overall choice. Only Part B questions include internal choice.

PART – A
(2 * 10 = 20 Marks)

1. List the information to be gathered during footprinting and footprinting countermeasures.
2. What is a spoofing IP address? State some IP spoofing Countermeasures.
3. How to defend against password cracking, Key loggers, and their types?
4. Explain Glass Box Scanning.
5. Differentiate between spoofing and hijacking.
6. State some Data Virtualization Tools.
7. What is the TCP/IP model?
8. Define DDL and DML commands.
9. With the help of diagram show how a network scan works.
10. Define the Hashing.

PART – B
(16 * 5 = 80 Marks)

11. **a)** Identify application errors to assist SQL injection and perform a directory browsing exploit Sensitive data exposure.

OR

b) Explain Virtualization in Cloud Computing and their types.

12. **a)** Discuss the various aspects of Trojans, Wrappers, Virus and their countermeasures.

OR

b) What is Application-level session hijacking? What are the application-level hijacking countermeasures?

13. **a)** Explain Network Scanning and its types. Explain the countermeasures taken to avoid Network Scanning.

OR

b) Discuss in detail Glass Box Scanning, and Content-based scanning.

14. **a)** What is session hijacking, and why session hijacking is successful? Explain the session hijacking countermeasures.

OR

b) How to defend against key loggers, steganography, and its types?

15. **a)** Explain the different types of the Intrusion detection system and their evasion techniques.

OR

b) Discuss the Three-way handshake & scanning Techniques in detail.