

[Time:2.30 Hrs]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:**
1. All question are compulsory.
 2. Figures to the right indicate full marks.

- Q.1 Attempt any four of the following: 20**
- a. Explain DNS poisoning and its consequences.
 - b. Explain the timeline and effects of the Uber data breach.
 - c. Explain clickjacking with an example.
 - d. Explain the dangers of using components with known vulnerabilities.
 - e. Compare and contrast different types of malware.
 - f. What is a computer worm and how does it differ from a virus?
- Q.2 Attempt any four of the following: 20**
- a. Differentiate between Black Hat and White Hat hackers with examples.
 - b. Define foot-printing and explain its relevance in penetration testing.
 - c. What is sniffing, and how can attackers use it to collect sensitive data?
 - d. Explain Phases of Reconnaissance.
 - e. Discuss the Penetration testing.
 - f. Write a short note on Ethical Hacking.
- Q.3 Attempt any four of the following: 20**
- a. Discuss methods to maintain access after exploiting a system.
 - b. What are the differences between Windows & Linux systems?
 - c. What are the different methods of password cracking?
 - d. What is IP spoofing, and how does it work?
 - e. Discuss methods to secure VOIP communications.
 - f. What are strategies to defend against brute force attacks?
- Q.4 Attempt any three of the following: 15**
- a. Explain the CIA triad and its importance in securing information systems.
 - b. Explain clickjacking with an example.
 - c. Differentiate between internal and external penetration testing.
 - d. How is Ethical hacking different from security auditing and digital forensics?
 - e. What is WEP, and why is it considered insecure?
 - f. What is the difference between an IDS and an IPS?
