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Sub Code: NOE76

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B.TECH.
(SEM VII) THEORY EXAMINATION 2018-19
Ethical Hacking and Prevention

Time: 3 Hours

Total Marks: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x10 = 20

- a. Differentiate between Worm and Spyware.
- b. What do you mean by Sniffer?
- c. What is social engineering?
- d. What is the need of firewall?
- e. Define intrusion detection system with example.
- f. What is basic difference between public key and private key?
- g. What is the importance of reverse engineering?
- h. How computer viruses conceal its behavior?
- i. Differentiate between symmetric key and asymmetric key algorithm.
- j. Explain denial of service attack with example.

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

- a. How can you prevent Denial of service attack in web applications?
- b. Explain various types of attackers in the context of the vulnerabilities associated with computer and information systems.
- c. What are different Security Challenges in Mobile Devices?
- d. What are common tools used by ethical hacker?
- e. Discuss penetration testing with proper example.

SECTION C

3. Attempt any *one* part of the following: 10 x 1 = 10

- (a) What is SQL Injection attack? Explain with the help of proper example.
- (b) Explain relation of cryptographic tools in ethical hacking?

4. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Explain wireless hacking with the help of proper example?
- (b) What are steps involved in Session Hijacking?

5. **Attempt any *one* part of the following:** **10 x 1 = 10**

- (a) Explain firewall and honeypots with proper example.
- (b) Explain the need of intrusion monitoring and detection.

6. **Attempt any *one* part of the following:** **10 x 1 = 10**

- (a) Explain the concept of cross site scripting with proper example.
- (b) What is security concerns related to buffer overflow?

7. **Attempt any *one* part of the following:** **10 x 1 = 10**

- (a) What are legal, professional and ethical issues likely to face the domain of ethical hacking?
- (b) How can we make use of the tools and techniques associated with ethical hacking?

RAJESH KUMAR TEWARI
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