June 13, 2024 02:30 pm - 05:30 pm 1T01035 - T.E.(Electronics and Telecommunication)(SEM-V) (Choice Base Credit Grading System) (R- 19) (C Scheme) / 32227 - Department Optional Course-I: IT Infra and Security   QP CODE: 10054930

Duration: 3hrs   **[Max Marks:80]**

N.B.: (1) Question No 1 is Compulsory.
(2) Attempt any three questions out of the remaining five.
(3) All questions carry equal marks.
(4) Assume suitable data, if required, and state it clearly.

Q.1 Answer any four questions. Each question carries five marks.   **[20 M]**

A   Explain the challenges in the IT security plan.
B   Compare TACACS, and TACACS+.
C   Explain a Buffer overflow vulnerability with the example.
D   List out various types of Malwares.
E   Brief the four levels of addresses used in TCP/IP protocols.

Q.2   Answer the following.
A   Explain in detail the basic steps to secure the operating system.   **[10 M]**
B   Explain Cross-Site Scripting with a suitable example.   **[10 M]**

Q.3   Answer the following.
A   Explain in detail JavaScript Hijacking with a suitable example.   **[10 M]**
B   Compare WEP and WPA Protocols used in Wireless security. Which **[10 M]** protocol is better? Justify your answer.

Q. 4   Answer the following.
A   Explain the design Issues of IT Organizations and IT Infrastructure.   **[10 M]**
B   Describe the various measures required for the reliability and integrity of **[10 M]** sensitive databases.

Q. 5   Answer the following.
A   List of different types of Authentication Methods and explain any two of **[10 M]** them.
B   What are the different wireless network attacks? How it should be **[10 M]** protected?

Q. 6   Answer the following.
A   Differentiate OSI & TCP/IP model. Explain different networking **[10 M]** components.
B   Explain the Inference channel attack with a suitable diagram.   **[10 M]**

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