22/11/2024   extc   sem-v   C Scheme   DLOC-IT Infra & Security   QP. CODE : 10065163

Duration: 3 Hours   **[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   Explain the OSI model with a neat diagram.
C   Explain a buffer overflow vulnerability using an example.
D   Explain the Virtual Private Network.
E   Explain the concept of JavaScript Hijacking.

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

Q.3   Answer the following.
A   Give the list of different types of Access Control Policies and explain any   **[10 M]**
      two of them.
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   Compare RADIUS, TACACS, and TACACS+.   **[10 M]**

Q. 5   Answer the following.
A   Explain different types of authentication Methods.   **[10 M]**
B   What are the Database security requirements and how multilevel database   **[10 M]**
      security is implemented?

Q. 6   Answer the following.
A   Differentiate OSI & TCP/IP model. Explain different networking   **[10 M]**
      components.
B   Explain the concept of Cookie Stealing, Cookie poisoning, and Cross-Site   **[10 M]**
      Request Forgery.

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