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**III.B.TECH- I-SEM (R20)-II MID Examinations-December-2023 Date: 30.12.2023**

**Subject: C&NS Time: 10:00 to 11:30 A.M**

**Branch: IT-(A), CSC Marks: 25 M**

***ANSWER ALL QUESTIONS IN PART -A & PART -B***

**PART-A 5x2M=10 M**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **BTL** | **CO** |
| **1.** | Explain Web Security considerations. | **2** | **3** |
| **2.** | What is HTTPS? | **1** | **4** |
| **3.** | Explain Mobile device security. | **2** | **4** |
| **4.** | Summarize Cross Site Scripting Vulnerability. | **3** | **5** |
| **5.** | List any four limitations of firewalls? | **2** | **5** |

**PART-B 3x5M=15 M**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | |  | | **BTL** | | | **CO** | | |
| **6.** | Briefly derive the concept of SHA-512 with suitable diagram. | | | **2** | | **3** | | |
|  | | | **OR** | |  | | |  | | |
| **7.** | | a) Explain X.509 authentication service.  b) Give various Message authentication Functions with suitable examples. | | | **3**  **3** | | **3**  **3** | | |
| **8.** | | Explain 802.11 Wireless LAN architecture along with security services. | | | **2** | | **4** | | |
|  | | **OR** | | |  | |  | | |
| **9.** | | a) Define Secure Socket Layer. And explain SSL record protocol format.  b) Explain TLS protocol and list different alert codes of TLS protocol. | | | **3**  **2** | | **4**  **4** | | |
|  | |  | | |  | |  | | |
| **10.** | | Explain PGP and how PGP message generation is done with neat diagram? | | | **2** | | **5** | | |
|  | | **OR** | | |  | |  | | |
| **11.** | | Define IP Sec. Explain combinations of security association. | | | **2** | | **5** | | |

**SCHEME OF EVALUATION**

**Part –A**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **1** | Explain Web Security considerations. | **2** | **2** |
| **2** | What is HTTPS? | **2** | **2** |
| **3** | Explain Mobile device security. | **2** | **2** |
| **4** | Summarize Cross Site Scripting Vulnerability. | **2** | **2** |
| **5** | List any four limitations of firewalls? | **2** | **2** |

**Part –B**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **6** | Briefly derive the concept of SHA-512 with suitable diagram.  (or) | **5** | **5** |
| **7** | a) Explain X.509 authentication service.  b) Give various Message authentication Functions with suitable examples. | **2.5**  **2.5** |  |
| **8** | Explain 802.11 Wireless LAN architecture along with security services.  (or) | **5** | **5** |
| **9** | a) Define Secure Socket Layer. And explain SSL record protocol format.  b) Explain TLS protocol and list different alert codes of TLS protocol. | **2.5**  **2.5** |  |
| **10** | Explain PGP and how PGP message generation is done with neat diagram?  (or) | **5** | **5** |
| **11** | Define IP Sec. Explain combinations of security association. | **5** |  |