Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **17CS2063** | **Duration :** | **3hrs** |
| **Sub. Name :** | **WIRELESS AND VOIP SECURITY** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Summarize the effects of the six attacks on Keys. | CO1 | 10 |
| b. | Why Wi-Fi networks are vulnerable to attacks? Explain the classification of attackers. | CO1 | 10 |
| **(OR)** | | | | |
| 2. | a. | Explain the traditional security architecture recommended for WiFi networks. | CO2 | 10 |
| b. | Discuss the danger of passive monitoring. | CO1 | 10 |
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| 3. | a. | Explain the three types of messages in IEEE 802.11. | CO2 | 10 |
| b. | Summarize RADIUS for secure Wireless communication. | CO3 | 10 |
| **(OR)** | | | | |
| 4. | a. | Appraise the security of Wired Equivalent Privacy (WEP). | CO4 | 10 |
| b. | Summarize the information warfare techniques pertaining to the security requirements. | CO2 | 10 |
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| 5. | a. | For the process of accessing multiple services for a client, illustrate the methodology using Kerberos protocol based on tickets. | CO4 | 10 |
| b. | Discuss the primary features of CISCO LEAP and PEAP protocols. | CO3 | 10 |
| **(OR)** | | | | |
| 6. | a. | Explain authentication in cellular networks using EAP-SIM. | CO3 | 10 |
| b. | Discuss the overview of the TKIP protocol. | CO3 | 10 |
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| 7. | a. | Elaborate the VoIP threats against availability. | CO5 | 10 |
| b. | With suitable examples, discuss the sources of vulnerabilities in voice over IP networks. | CO5 | 10 |
| **(OR)** | | | | |
| 8. | a. | Discuss the overview of H.323 along with its pros and cons. | CO5 | 10 |
| b. | Illustrate the architecture of VoIP and summarize its benefits and disadvantages. | CO5 | 10 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Explain the overview of the Session Initiation Protocol (SIP) and discuss the basic call flow between the client and the server. | CO6 | 10 |
| b. | List the sequence of messages for implementing the Denial of Service attack in VOIP network. | CO6 | 10 |