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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2017**

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| **Code :** | **14CS2067** | **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. |  | Illustrate the process flow of wireless attack with a suitable case study. | CO2 | 20 |
| (OR) | | | | |
| 2. | b. | Summarize the four categories of wireless networks based on characteristics of the supporting infrastructure and network architecture | CO2 | 10 |
| c. | Give the unique requirements that drive the design of military communications systems towards enhancing the solutions that are different from commercial systems. | CO2 | 10 |
| 3. |  | Explain the objectives and mechanics of Wired Equivalent Privacy (WEP). | CO3 | 20 |
| (OR) | | | | |
| 4. |  | Illustrate the RSN Solution Based on TLS with clear explanation of each standard. | CO3 | 20 |
| 5. |  | Summarize Extensible Authentication Protocol and Extensible Authentication Protocol over Lan with it message formats. | CO3 | 20 |
| (OR) | | | | |
| 6. |  | Discuss the Upper layer Authentication Methods of Transport Layer Security, CISCO - Light Extensible Authorization Protocol (LEAP) and Extensible Authentication Protocol –Subscriber Identity Module with appropriate diagrams. | CO3 | 20 |
| 7. | a. | Explain pairwise and group key hierarchy for secure data transmission in wireless networks. | CO2 | 10 |
|  | b. | Explain WPA Version of EAPOL-Key Descriptor and detail each field. | CO2 | 10 |
| (OR) | | | | |
| 8. | a. | Summarize Voice over Internet Protocol Services Architecture along with its pros and cons. | CO1 | 15 |
|  | b. | Explain the sources of vulnerability for Voice over Internet Protocol. | CO1 | 5 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Explain the transition from Public Switched Telephone Network to Voice over Internet Protocol with clear history and the three communication schemes. | CO1 | 15 |
|  | b. | Detail the Session Initiation Protocol attacks in VoIP and give their counter measures. | CO1 | 5 |

ALL THE BEST