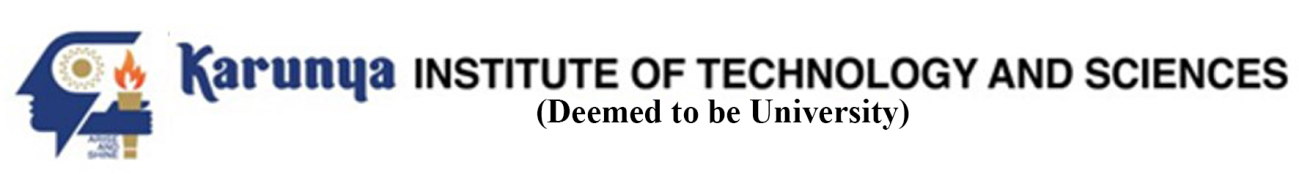
Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov/Dec – 2018**

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| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **17CS3073** | **Duration :** | **3hrs** |
| **Sub. Name :** | **WIRELESS SECURITY** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Examine the impact of passive attacks. | CO3 | 10 |
| b. | Describe the traditional security architecture. | CO2 | 10 |
| (OR) | | | | |
| 2. | a. | Enumerate the sequence of events when a mobile station joins a wireless network. | CO1 | 6 |
| b. | Compose the details of beacon and management frame format of IEEE 802.11. | CO1 | 6 |
| c. | Summarize the solutions for keeping the keys secure. | CO2 | 8 |
|  |  |  |  |  |
| 3. | a. | Differentiate WEP authentication from open authentication in the original IEEE 802.11 standard. | CO2 | 5 |
| b. | Describe the mechanism of WEP security protocol. | CO2 | 15 |
| (OR) | | | | |
| 4. | a. | Differentiate WPA from RSN. | CO2 | 5 |
| b. | Describe Remote Access Dial-In User Service (RADIUS). | CO3 | 15 |
|  |  |  |  |  |
| 5. | a. | Discuss the relationship of TLS handshake and WPA/RSN. | CO3 | 8 |
| b. | Describe the usages of various tickets in Kerberos with appropriate diagrams. | CO4 | 12 |
| (OR) | | | | |
| 6. | a. | Compose the implementation details of TKIP. | CO4 | 10 |
| b. | Describe Protected EAP Protocol (PEAP). | CO3 | 10 |
|  |  |  |  |  |
| 7. | a. | Discuss the various modes of operation of AES cipher. | CO4 | 10 |
| b. | Illustrate the steps in computing MIC in CCMP encryption. | CO4 | 10 |
| (OR) | | | | |
| 8. | a. | Summarize the security issues and solutions of IBSS Ad-Hoc networks. | CO6 | 10 |
| b. | Discuss how to protect yourself when using a public hotspot. | CO6 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Describe the Bluetooth security architecture. | CO5 | 20 |