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

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

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| **Code :** | **17CA2049** | **Duration :** | **3hrs** |
| **Sub. Name :** | **FUNDAMENTALS OF INFORMATION 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. | Discuss and describe the CIA Triad. | CO1 | 8 |
| b. | Compare and contrast Segregation of duties and job rotation. | CO1 | 6 |
| c. | Describe the risk, threats, and vulnerabilities. | CO1 | 6 |
| (OR) | | | | |
| 2. | a. | Sketch the relationships among the different security components. | CO1 | 5 |
| b. | Explain Information Assurace Security framework. | CO1 | 15 |
|  |  |  |  |  |
| 3. | a. | Differences between viruses, worms, and Trojans. | CO3 | 6 |
| b. | Classify malware by using the primary traits. | CO3 | 8 |
| c. | Define spyware and list the technologies used by spyware. | CO3 | 6 |
| (OR) | | | | |
| 4. |  | Explain social engineering attack in detail. | CO3 | 20 |
|  |  |  |  |  |
| 5. | a. | Describe the Change Control Procedures. | CO4 | 10 |
| b. | Explain the methods used to destroy sensitive data. | CO5 | 10 |
| (OR) | | | | |
| 6. |  | Determine the roles of a data owner, system owner, user, custodian, Business/Mission Owners, Administrators. | CO4 | 20 |
|  |  |  |  |  |
| 7. | a. | Sketch the elements of risk. | CO2 | 5 |
| b. | Sort the basic formulas used in quantitative risk assessment. | CO2 | 5 |
| c. | Describe the possible responses to risk. | CO2 | 10 |
| (OR) | | | | |
| 8. | a. | Explain the six major elements of quantitative risk analysis. | CO2 | 15 |
| b. | List the techniques to perform qualitative risk analysis. | CO2 | 5 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Describe Business Continuity Management. | CO6 | 10 |
| b. | Explain Cryptography. | CO6 | 10 |