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



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

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|  |  |  |  |
| **Code :** | **17CS2039** | Duration : | **3hrs** |
| **Sub. Name :** | **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. | List and explain the various components of security program. | CO1 | 15 |
| b. | Differentiate between Structured data and Unstructured data with suitable example. | CO2 | 5 |
| (OR) | | | | |
| 2. | a. | Explain in detail the Kerberos authentication process. | CO2 | 15 |
| b. | Compare the business processes and technical controls with suitable example. | CO1 | 5 |
|  |  |  |  |  |
| 3. | a. | List and explain the various password authentication systems. | CO2 | 15 |
|  | b. | Write short notes on availability of network security. | CO3 | 5 |
| (OR) | | | | |
| 4. | a. | HR has a database which maintains information about each employee including their annual wage, previous disciplinary action and personal data such as home address and social security number. How structured data is converted into unstructured data in this application? Explain. | CO3 | 15 |
|  | b. | Differentiate between Information rights management and Digital rights management with suitable example. | CO4 | 5 |
|  |  |  |  |  |
| 5. | a. | Briefly describe the following extraneous services   1. BOOTP Server 2. TFTP Server 3. Finger Server 4. Web Server | CO3 | 20 |
| (OR) | | | | |
| 6. | a. | In a shopping mall, to make ingress and egress as convenient as possible, numerous entrances and exits are provided. However, the large number of entrances and exits makes attempts to control access to the shopping mall expensive and difficult. In contrast, an airport is designed to funnel all passengers through a small number of well-controlled checkpoints for inspection. Networks built on the shopping mall model are inherently harder to secure than networks designed around the airport model. Examine the designs of shopping mall and an airport. How the overall design impacts security? Explain. | CO4 | 15 |
|  | b. | Differentiate between the Mandatory access control and Discretionary access control. | CO5 | 5 |
|  |  |  |  |  |
| 7. | a. | Briefly describe the following confidentiality risks in risk remediation   1. Storage persistence 2. Storage Platform Attacks 3. Fraud 4. Hijacking 5. Fishing | CO4 | 20 |
| (OR) | | | | |
| 8. | a. | List and explain the various types of web server attacks with an example. | CO5 | 15 |
|  | b. | Write short notes on reference monitor. | CO5 | 5 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | List and explain the various boundry condition vulnerabilities with neat sketch. | CO6 | 15 |
|  | b. | Differentiate between whitelisting and blacklisting. | CO6 | 5 |