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



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

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| **Code :** | **17CA3005** | **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. | Distinguish Cyber security from Information security. | CO1 | 5 |
| b. | Discuss the major vulnerabilities giving rise to Cyber attacks. | CO1 | 5 |
| c. | State the most valuable information the Cyber criminals seek. | CO1 | 5 |
| d. | Describe in brief the various digital channels presently available to customers of Banks. | CO1 | 5 |
| **(OR)** | | | | |
| 2. |  | Define Risk Management and illustrate “Risk Management Steps” with diagram. | CO1 | 20 |
|  |  |  |  |  |
| 3. | a. | Describe Governance in Information Technology and its relevance for Stake Holders. | CO2 | 5 |
| b. | Distinguish the job roles of Board from Senior Management, in I.T Governance. | CO2 | 5 |
| c. | Explain the concept of Ownership of Data and Systems in an organization and identify the custodian of Data. | CO2 | 5 |
| d. | State the charasteristics of Security Governance. | CO2 | 5 |
| **(OR)** | | | | |
| 4. |  | Differentiate between Policies, Procedures, Standards, Guidelines and Baselines for Information Security and explain in detail. | CO2 | 20 |
|  |  |  |  |  |
| 5. | a. | Explain “Man in the Middle Attack” with examples. | CO4 | 5 |
| b. | Explain the concept of “STRIDE” by MICROSOFT with regard to Threat events. | CO4 | 5 |
| c. | Explain the components of User Access Control ( IAAA) in Information Security. | CO3 | 5 |
| d. | Describe various methods of protection of IT infrastructure from threats. | CO3 | 5 |
| **(OR)** | | | | |
| 6. |  | Discuss the advantages and disadvantages of Cloud services and the security challenges involved. | CO4 | 20 |
|  |  |  |  |  |
| 7. | a. | Mention in brief the most important and popular Software Development Life Cycle (SDLC) models presently used by the corporates. | CO5 | 5 |
| b. | Discuss the advantages and disadvantages of Iterative SDLC Model. | CO5 | 5 |
| c. | Compare Agile SDLC model with Traditional SDLC models. | CO5 | 5 |
| d. | Explain the importance of Testing, Auditing and Review in SDLC framework. | CO5 | 5 |
| **(OR)** | | | | |
| 8. |  | Describe the various stages of Software Development Life Cycle (SDLC) with diagram. | CO5 | 20 |
|  | | **Compulsory**: |  |  |
| 9. | a. | List out the physical access control to be implemented for protecting Information Technology Assets. | CO6 | 5 |
| b. | Discuss Administrative controls to be implemented for protection of Information Technology Assets. | CO6 | 5 |
| c. | Discuss in detail the “Clear desk and Clear screen policy”. | CO6 | 5 |
| d. | Explain the procedure for disposal of Information Technology Assets. | CO6 | 5 |