**20CB504**

**Hall Ticket Number:**

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| **III/IV B.Tech (Regular) DEGREE EXAMINATION** | | | |
| **February,2023** | **Cyber Security** | | |
| **Fifth Semester** | **Introduction to Information Security & Cyber Laws** | | |
| **Time:** Three Hours | | **Maximum: 7**0 Marks | |
| *Answer Question No. 1 Compulsorily.* | | | (14X1 = 14 Marks) |
| *Answer* ***ANY ONE*** *question from each Unit.* | | | (4X14=56 Marks) |

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| 1. | a) | What are the main components of Information system model? | CO1 | L2 | 1M |
|  | b) | Name three goals of Information Security. | CO1 | L1 | 1M |
|  | c) | What is sandboxing in cyber security? | CO2 | L1 | 1M |
|  | d) | What are the security activities involved in each phase of SDLC? | CO3 | L2 | 1M |
|  | e) | Which are very important in designing a secure system? | CO4 | L3 | 1M |
|  | f) | What is the ISO standard for developing enterprise-level security standard? | CO4 | L2 | 1M |
|  | g) | Which act aims at the regulation of the use of IT? | CO4 | L2 | 1M |
|  | h) | What is cyber security? | CO1 | L2 | 1M |
|  | i) | What is the importance of encryption in Information Security? | CO2 | L1 | 1M |
|  | j) | How digital signature is formed? | CO2 | L2 | 1M |
|  | k) | List Backup Security measures. | CO3 | L3 | 1M |
|  | l) | What are the components involved in the risk management process? | CO3 | L2 | 1M |
|  | m) | List threats to e- commerce. | CO2 | L2 | 1M |
|  | n) | What is software license? | CO4 | L3 | 1M |
| **Unit -I** | | | | | |
| 2. | a) | Write about Information Security along with web services. | CO1 | L1 | 7M |
|  | b) | What is the need for Information security and explain different threats on IS. | CO1 | L3 | 7M |
|  |  | **(OR)** |  |  |  |
| 3. | a) | What is Information Assurance? explain with diagrams. | CO1 | L2 | 7M |
|  | b) | Elaborate Security Risk Analysis. | CO1 | L1 | 7M |
|  |  | **Unit -II** |  |  |  |
| 4. | a) | Write about data backup, archival. | CO2 | L3 | 7M |
|  | b) | Discuss about different threats to e-cash, credit/debit/smart cards and electronic payment system . | CO2 | L4 | 7M |
|  |  | **(OR)** |  |  |  |
| 5. | a) | Explain IDS, IDS components and types of IDS with diagrams. | CO2 | L1 | 7M |
|  | b) | Write about Application Security. | CO2 | L3 | 7M |
|  |  | **Unit -III** | |  |  |
| 6. | a) | Describe the application development security | CO3 | L4 | 7M |
|  | b) | Explain about security governance and risk management. | CO3 | L2 | 7M |
|  |  | **(OR)** |  |  |  |
| 7. | a) | Discuss, what are the security issues related to hardware, data storage, and downloadable devices? | CO3 | L1 | 7M |
|  | b) | Explain the process of developing secure information system, integrating with initial phase with a diagram. | CO3 | L2 | 7M |
|  |  | **Unit -IV** |  |  |  |
| 8. | a) | Explain semiconductor layout and design, in detail. | CO4 | L1 | 7M |
|  | b) | Illustrate Various Security Policies and Their Review Process | CO4 | L3 | 7M |
|  |  | **(OR)** |  |  |  |
| 9. | a) | Explain the ISO standards to be considered while laying down the policies. | CO4 | L2 | 7M |
|  | b) | Explain Copyright act and patent law. | CO4 | L3 | 7M |

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