**20CB504**

**Hall Ticket Number:**

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| **III/IV B.Tech (Regular/supplementary) DEGREE EXAMINATION** | | | |
| **January, 2024** | **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 threats to information systems? | CO1 | L2 | 1M |
|  | b) | Name four IS activities. | CO1 | L1 | 1M |
|  | c) | What are the vendor challenges for application security? | CO2 | L1 | 1M |
|  | d) | Write two primary ways of data disposal | CO2 | L2 | 1M |
|  | e) | What are the components involved in the risk management process? | CO3 | L3 | 1M |
|  | f) | What are the issues faced by data storage devices? | CO3 | L2 | 1M |
|  | g) | What is IPR? | CO4 | L2 | 1M |
|  | h) | List different types of IS. | CO1 | L2 | 1M |
|  | i) | What is digital signature? | CO2 | L1 | 1M |
|  | j) | List different security issues in hardware. | CO3 | L2 | 1M |
|  | k) | What is the importance of cryptography in Information Security? | CO1 | L3 | 1M |
|  | l) | Define ISO. | CO4 | L2 | 1M |
|  | m) | What is software license? | CO4 | L2 | 1M |
|  | n) | What are the security issues in downloadable devices? | CO3 | L3 | 1M |
| **Unit -I** | | | | | |
| 2. | a) | Explain any three models used for development of IS, with diagrams. | CO1 | L1 | 7M |
|  | b) | Elaborate Security Risk Analysis. | CO1 | L3 | 7M |
|  |  | **(OR)** |  |  |  |
| 3. | a) | What is the need for Information Security and Intrusion Detection? | CO1 | L2 | 7M |
|  | b) | What is Information Assurance? Explain with diagrams. | CO1 | L1 | 7M |
|  |  | **Unit -II** |  |  |  |
| 4. | a) | Write about application security. | CO2 | L3 | 7M |
|  | b) | Write about data backup, archival. | CO2 | L4 | 7M |
|  |  | **(OR)** |  |  |  |
| 5. | a) | What are the different types of VPN? Explain three of them with diagrams. | CO2 | L1 | 7M |
|  | b) | Discuss in detail about network based IDS. | CO2 | L3 | 7M |
|  |  | **Unit -III** | |  |  |
| 6. | a) | Explain the process of developing secure information system | CO3 | L2 | 7M |
|  | b) | Explain about security governance and risk management. | CO3 | L2 | 7M |
|  |  | **(OR)** |  |  |  |
| 7. | a) | What is security architecture and design? | CO3 | L1 | 7M |
|  | b) | Discuss, what are the security issues related to hardware, data storage, and downloadable devices? | CO3 | L2 | 7M |
|  |  | **Unit -IV** |  |  |  |
| 8. | a) | Describe Intellectual Property Issues. | CO4 | L1 | 7M |
|  | b) | Explain semiconductor layout and design, in detail. | CO4 | L3 | 7M |
|  |  | **(OR)** |  |  |  |
| 9. | a) | Explain Copyright act and patent law. | CO4 | L2 | 7M |
|  | b) | Discuss about Indian Cyber Law Objective and Scope of the IT Act, 2000. | CO4 | L2 | 7M |

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