

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)**

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**QUESTION BANK (DESCRIPTIVE)****Subject with Code: CYBER SECURITY (20CS5019)****Year & Sem: I-M.Tech – II-Sem****Course & Branch: M.Tech - CSE****UNIT –I****INTRODUCTION CYBER CRIME**

|           |   |            |              |
|-----------|---|------------|--------------|
| <b>1</b>  | Discuss and Elaborate about Cybercrime and its related security measures          | [L2][CO1]  | <b>[12M]</b> |
| <b>2</b>  | What is cybercrime? Explain the classification of cybercrimes.                    | [L2][CO1]  | <b>[12M]</b> |
| <b>3</b>  | <b>a</b> Define cybercrime and information security.                              | [L1] [CO1] | <b>[6M]</b>  |
|           | <b>b</b> Who are cybercriminals? How they are harmful to society?                 | [L2] [CO1] | <b>[6M]</b>  |
| <b>4</b>  | <b>a</b> Explain about cybercrime in detail.                                      | [L2] [CO1] | <b>[6M]</b>  |
|           | <b>b</b> Describe about who are the cybercriminals in cyber security.             | [L2] [CO1] | <b>[6M]</b>  |
| <b>5</b>  | <b>a</b> Summarize about cybercrime in “the legal perspective”                    | [L2] [CO1] | <b>[6M]</b>  |
|           | <b>b</b> Summarize about cybercrime in “the Indian perspective”                   | [L2] [CO1] | <b>[6M]</b>  |
| <b>6</b>  | <b>a</b> Elaborate Indian ITA 2000 act.   | [L3] [CO1] | <b>[6M]</b>  |
|           | <b>b</b> Classify global perspectives on cybercrimes.                             | [L4] [CO1] | <b>[6M]</b>  |
| <b>7</b>  | Recall the challenges to Indian cyber laws? Explain briefly.                      | [L1] [CO1] | <b>[12M]</b> |
| <b>8</b>  | Explain about Information Security Management related to Cyber Security in detail | [L2] [CO1] | <b>[12M]</b> |
| <b>9</b>  | <b>a</b> Illustrate Cybercrimes Cases of Various Categories under IPC Section     | [L3] [CO1] | <b>[6M]</b>  |
|           | <b>b</b> Dissect the Incidence of Cybercrimes in Cities in detail                 | [L4] [CO1] | <b>[6M]</b>  |
| <b>10</b> | Identify Cybercrimes Cases of Various Categories under ITA 2000                   | [L3] [CO1] | <b>[12M]</b> |

**UNIT –II**  
**TOOLS AND METHODS**

|    |   |  |            |       |
|----|---|--|------------|-------|
| 1  | a | Discuss the various tools used in cybercrime.                                      | [L2][CO2]  | [6M]  |
|    | b | Classify different techniques used in cybercrime.                                  | [L4][CO2]  | [6M]  |
| 2  | a | Outline the purpose of proxy Server in detail                                      | [L2][CO2]  | [6M]  |
|    | b | Who are Anonymizers and how they get affected by scams in cybercrime?<br>Explain   | [L1][CO2]  | [6M]  |
| 3  | a | What is a key logger? How it creates harmful to the users and list out types in it | [L1][CO2]  | [6M]  |
|    | b | Dissect Spywares in details  | [L2][CO2]  | [6M]  |
| 4  | a | Justify various tools and techniques used to launch attacks against the target     | [L3][CO2]  | [6M]  |
|    | b | How hacker use the SQL injections to hack the information. Summarize it.           | [L2][CO2]  | [6M]  |
| 5  |   | Define Password Cracking? Explain the tools in password cracking                   | [L1][CO2]  | [12M] |
| 6  | a | Explain in detail about Spywares and How it harms our machine                      | [L2][CO2]  | [6M]  |
|    | b | Distinguish Virus and Worms? How it harms our machine?                             | [L3][CO2]  | [6M]  |
| 7  | a | Discuss about Trojan horse and back doors in cyber security.                       | [L2][CO5]  | [6M]  |
|    | b | Write short notes on stenography.  | [L1] [CO2] | [6M]  |
| 8  | a | What is Phishing attack? Discuss in detail.  | [L1][CO2]  | [6M]  |
|    | b | Justify Phishing attacks with an example.  | [L3] [CO2] | [6M]  |
| 9  | a | Demonstrate buffer overflow?   | [L2][CO2]  | [6M]  |
|    | b | Identify the techniques in buffer overflow.  | [L2] [CO2] | [6M]  |
| 10 | a | Define DOS and DDOS  | [L1][CO2]  | [6M]  |
|    | b | Apply the concept of Daniel of Service with an example and Explain                 | [L3] [CO2] | [6M]  |

**UNIT – III**  
**COMPUTER FORENSIC**

|           |   |           |       |
|-----------|---|-----------|-------|
| <b>1</b>  | Explain the steps in Cyber Forensic analysis of e-mail in detail                  | [L1][CO3] | [12M] |
| <b>2</b>  | Explain about Digital Forensics life cycle in detail                              | [L2][CO3] | [12M] |
| <b>3</b>  | <b>a</b> Why Computer Forensics is required in Cyber Crime Cases                  | [L2][CO3] | [6M]  |
|           | <b>b</b> Write about the Historical background of Computer Forensics              | [L2][CO3] | [6M]  |
| <b>4</b>  | <b>a</b> How Network Forensic helps in solving Cyber Crime cases                  | [L2][CO3] | [6M]  |
|           | <b>b</b> Write down the steps in setting up Computer Forensic Laboratory          | [L2][CO3] | [6M]  |
| <b>5</b>  | Explain in details about Network forensics and its types                          | [L2][CO3] | [12M] |
| <b>6</b>  | Draw and explain about e-mail Digital Forensic life cycle                         | [L2][CO3] | [12M] |
| <b>7</b>  | <b>a</b> What are the four stages of computer forensic process? Explain in detail | [L2][CO4] | [6M]  |
|           | <b>b</b> What are the three elements of computer forensics? Explain in detail     | [L2][CO4] | [6M]  |
| <b>8</b>  | Explain Computer forensic from compliance perspectives                            | [L2][CO4] | [12M] |
| <b>9</b>  | <b>a</b> What is the importance of network forensics?                             | [L1][CO4] | [6M]  |
|           | <b>b</b> What are the challenges in network forensics?                            | [L1][CO4] | [6M]  |
| <b>10</b> | What are the Relevance of the OSI 7 Layer model to computer Forensic              | [L1][CO4] | [12M] |

**UNIT – IV****ATTACKS ON MOBILE/CELL PHONES, MOBILE DEVICES**

|           |          |   |            |       |
|-----------|----------|---|------------|-------|
| <b>1</b>  | <b>a</b> | Compare Mobile Computing Vs Wireless Computing                            | [L2][CO5]  | [6M]  |
|           | <b>b</b> | Distinguish Malwares, viruses and worms                                   | [L4][CO5]  | [6M]  |
| <b>2</b>  | <b>a</b> | Examine about the Mobility and its Trends                                 | [L3][CO5]  | [6M]  |
|           | <b>b</b> | Discuss organizational measures for handling the mobile devices           | [L2][CO5]  | [6M]  |
| <b>3</b>  | <b>a</b> | Summarize the Proliferation (Growth) of Mobile and Wireless Devices       | [L2][CO5]  | [6M]  |
|           | <b>b</b> | Express the importance of security policies related to Hand held devices  | [L3][CO5]  | [6M]  |
| <b>4</b>  | <b>a</b> | Identify the LDAP Security in mobile computing devices                    | [L3][CO5]  | [6M]  |
|           | <b>b</b> | Discuss the Security Challenges posed by Mobile Devices                   | [L2][CO5]  | [6M]  |
| <b>5</b>  | <b>a</b> | Explain the types of mobile phone Attacks                                 | [L2][CO5]  | [6M]  |
|           | <b>b</b> | Recall on Mobile Viruses with a brief note on it.                         | [L1][CO5]  | [6M]  |
| <b>6</b>  |          | Examine the credit card frauds in mobile & wireless devices               | [L4][CO5]  | [12M] |
| <b>7</b>  | <b>a</b> | Select the appropriate techniques used in authentication service security | [L3][CO5]  | [6M]  |
|           | <b>b</b> | List out few Tips to Secure your Cell/Mobile Phone from being Stolen/Lost | [L1][CO5]  | [6M]  |
| <b>8</b>  |          | Inference about the Registry Settings for Mobile Devices in detail.       | [L4][CO5]  | [12M] |
| <b>9</b>  |          | Express the steps used in authentication service security.                | [L2] [CO5] | [12M] |
| <b>10</b> | <b>a</b> | Discuss the attacks on mobile or cell phones                              | [L2] [CO5] | [6M]  |
|           | <b>b</b> | Compare Mishing, Smishing and Vishing in detail                           | [L2][CO5]  | [6M]  |

**UNIT – V**  
**CYBER SECURITY AND SOCIAL MEDIA MARKETING**

|           |   |           |       |
|-----------|---|-----------|-------|
| <b>1</b>  | Explain in detail about organizational implications.                          | [L2][CO6] | [12M] |
| <b>2</b>  | Describe about cost of cybercrimes with examples.                             | [L2][CO6] | [12M] |
| <b>3</b>  | <b>a</b> What are the types of cookies? Explain in detail                     | [L1][CO6] | [6M]  |
|           | <b>b</b> Discuss how to protect online protection                             | [L2][CO6] | [6M]  |
| <b>4</b>  | <b>a</b> Explain the cost of crimes in detail with examples                   | [L2][CO6] | [6M]  |
|           | <b>b</b> Write a notes on IPR issues  | [L1][CO6] | [6M]  |
| <b>5</b>  | <b>a</b> Examine Web threats for organization in detail                       | [L4][CO6] | [6M]  |
|           | <b>b</b> List the security and privacy implications in detail                 | [L1][CO6] | [6M]  |
| <b>6</b>  | Prioritize the theme behind the “Social media marketing tools”                | [L4][CO6] | [12M] |
| <b>7</b>  | <b>a</b> Distinguish proactive and reactive approach to security              | [L2][CO6] | [6M]  |
|           | <b>b</b> Discuss the various types of mobile workers or remote workers.       | [L2][CO6] | [6M]  |
| <b>8</b>  | <b>a</b> What are the security risks in cyber security                        | [L1][CO6] | [6M]  |
|           | <b>b</b> Discuss the perils for organizations                                 | [L2][CO6] | [6M]  |
| <b>9</b>  | Explain in detail about security risks and perils for organizations.          | [L2][CO6] | [12M] |
| <b>10</b> | <b>a</b> Explain social computing for organizations.                          | [L2][CO6] | [6M]  |
|           | <b>b</b> Explain social computing and associated challenges for organizations | [L2][CO6] | [6M]  |

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