

## Computer Science : Paper III - Elective I- Cyber &amp; Information Security (Network Security).

TIME: 3 Hours

Marks: 75

N.B:

1. Attempt any three questions from each section
2. Answers to the two sections must be written in same answer sheet.
3. Figures to the right indicate full marks.
4. Assume additional data if necessary but state the same clearly.
5. Symbols have their usual meanings and tables have their usual standard design unless stated otherwise.
6. Use of Simple calculators and statistical tables is allowed.

**Section I**

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|------------|----------|--|-----------|
| <b>Q.1</b> | <b>A</b> | Write a short note on Operating System Security.           | <b>06</b> |
|            | <b>B</b> | Explain different types of computer criminals.             | <b>06</b> |
| <b>Q.2</b> | <b>A</b> | Write a short note on memory address protection.           | <b>06</b> |
|            | <b>B</b> | Write a short note on SSL/TLS Basic Protocol.              | <b>06</b> |
| <b>Q.3</b> | <b>A</b> | What do you mean by Computer Security                      | <b>06</b> |
|            | <b>B</b> | Write a short note on Secure Electronic Transaction (SET). | <b>06</b> |
| <b>Q.4</b> | <b>A</b> | Write a short note on Multilevel Security.                 | <b>06</b> |
|            | <b>B</b> | What do you mean by Sensitive Data?                        | <b>06</b> |
| <b>Q.5</b> | <b>A</b> | Explain Different types of network layer attacks.          | <b>06</b> |
|            | <b>B</b> | Write a short note on Firewall.                            | <b>06</b> |

**Section II**

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|-------------|----------|--|-----------|
| <b>Q.6</b>  | <b>A</b> | What do you mean by Protected methods? Explain with types. | <b>06</b> |
|             | <b>B</b> | Write a short note on Access Control List(ACL).            | <b>07</b> |
| <b>Q.7</b>  | <b>A</b> | Explain different Vulnerabilities in Cellular Services.    | <b>06</b> |
|             | <b>B</b> | How the security is implemented in 802.11 Network.         | <b>07</b> |
| <b>Q.8</b>  | <b>A</b> | Write a short note on Zigbee Security & Attacks.           | <b>06</b> |
|             | <b>B</b> | Explain the security in Wireless Networks.                 | <b>07</b> |
| <b>Q.9</b>  | <b>A</b> | Write a short note on Virtualization System Security.      | <b>06</b> |
|             | <b>B</b> | Explain backup and recovery with example.                  | <b>07</b> |
| <b>Q.10</b> | <b>A</b> | Write a short note on Web Server Security.                 | <b>06</b> |
|             | <b>B</b> | What do you mean by Client Authentication?                 | <b>07</b> |

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