

**IMSC (CS) (Old) Sem.-5 Examination
Cyber Security
December-2025**

Time : 3.00 Hours]

[Max.Marks :70

Instructions:

- Write both the Sections in the separate answer book.
- Both Sections having equal weightage.
- Draw Diagrams wherever necessary.
- Make Assumptions wherever necessary.

SECTION – I

- Q-1 Do as directed. [attempt any seven out of ten]: [7]
1. Give full form of ARPANET.
 2. Give full form of CRM.
 3. Give a full form of RDBMS.
 4. Give a full form of MIS.
 5. Give a full form of DSS.
 6. Give a full form of LAN.
 7. Give a full form of CRM.
 8. Give a full form of KMS.
 9. Give a full form of dApps.
 10. Give a full form of IETF.
- Q-2 Attempt the following :
- a. What is IS? Explain its components with a diagram. [5]
 - b. Explain Bell-LaPadula Model and Biba Model models. [5]
 - c. Explain Threat actors and their motivations in brief. [4]
- OR**
- Q-2 Attempt the following :
- a. Give brief on National Cybersecurity Policy. [5]
 - b. List different forms of cybercrime and explain any four of them in brief. [5]
 - c. Explain evaluation of IS. [4]
- Q-3 Attempt the following :
- a. Explain digital payment with RBI guidelines. [3]
 - b. Explain types of IS with proper explanation of each type. [5]
 - c. List Types of cyber attacks and Explain any three in brief. [6]
- OR**
- Q-3 Attempt the following:
- a. Explain Cyber Kill Chain with a proper diagram. [7]
 - b. List Types of vulnerabilities and explain any three of them in brief. [4]
 - c. Explain governance of the internet [3]

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SECTION – II

- Q-4 Do as directed. [attempt any seven out of ten]: [7]
1. Define the following: Cyber security.
 2. Define the following: Cyberspace.
 3. Define the following: Internet.
 4. Define the following: Intranet.
 5. Define the following: Digital footprint.
 6. Define the following: Cyber law.
 7. Give a full form of TCP/IP.
 8. Give a full form of CIA.
 9. Give a full form of DoS.
 10. Give a full form of DDoS.

- Q-5 Attempt the following:
- a. Explain what is OWASP Top 10? List The OWASP Top 10 vulnerabilities. [3]
 - b. Explain Computer Ethics and Online Code of Conduct. [5]
 - c. Explain Responding to Cyberattacks and also list Tools and methods used in Cyberattacks [6]

OR

- Q-5 Attempt the following:
- a. What is ecommerce? Explain the importance of cybersecurity and legal aspects in ecommerce. [5]
 - b. Explain IPR. list and explain its types. [5]
 - c. List Best practice for using social media. [4]

- Q-6 Attempt the following:
- a. Differentiate Cybersecurity governance and risk management [5]
 - b. What is social networks list and explain types of social networks in brief. [5]
 - c. Do as directed: [4]
Define following: 1. Cyberattack 2. IPR.
Give a full form of following: DPDP, UPI.

OR

- Q-6 Attempt the following:
- a. Short note on : Industry-specific frameworks for cybersecurity. [5]
 - b. Explain ecommerce and laws for data privacy and data protection acts. [5]
 - c. Explain that the CIA tired of cyber security with a diagram. [4]

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