

Information Technology

Duration : 2 Hours

Max. Marks : 80

**Instructions:**

1. Figures to the right indicate maximum marks
2. Start each new question on a fresh page

**Q1. Write a short note on (any 4)**

(4x4 =16 MKS)

- a. Internet and its role
- b. Coaxial Cables
- c. Malware and 0-day attacks
- d. Cyber Stalking
- e. Precautions to be taken to protect personal data on computing devices
- f. IPR and Domain names

**Q2. Write a short note on (any 4)**

(4x4=16 MKS)

- a. DOS attacks with examples
- b. Procedure to report Cyber crimes
- c. Cyber Laws: Evolution and Purpose
- d. Significance of CERT-IN
- e. Data recovery during forensics
- f. Media Sanitization techniques

**Q3. Answer the following questions (any 2)**

(6x2=12 MKS)

- a. Explain the functions of following web protocols  
(i) HTTP (ii) HTTPS (iii) Email Protocols
- b. What is Social Networking? Explain various types of social networking with examples.
- c. Explain the term 'Cyber Warfare'. What are the main targets of attackers in a Cyber War? Explain the technological approaches used in these attacks.

**Q4. Answer the following questions (any 2)**

(6x2=12 MKS)

- a. What are 'Intellectual Property Rights'? Explain its classification
- b. What are the precautions you will take when you register on a new website as a user and Why?
- c. Explain the classification of Cyber Crimes along with suitable examples

**Q5. Answer the following questions (any 2)**

(6x2=12MKS)

- a. What is Phishing? What are the precautions to be taken to protect yourself from becoming a phishing victim?
- b. Explain the following techniques used in Social Engineering attacks:  
(i) Baiting Scenarios (ii) Response to a question you never had
- c. Explain the difference between bailable and non-bailable offence. Give 3 examples of cyber offences under each category.

**Q6. Explain the following with reference to Computer Forensics (any 2)**

(6x2=12MKS)

- a. Imaging and Authentication procedure
- b. Electronic evidence: its characteristics and risks involved in collection
- c. Forensic Procedure