



**Avinashilingam Institute for Home Science and Higher Education for Women**  
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD) [now MoE]  
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B  
Coimbatore - 641 043, Tamil Nadu, India

**Continuous Internal Assessment I – August 2025**  
**V SEMESTER**

**Class: III UG**  
**Major: Computer Applications**

**Time : 2 Hours**  
**Max Marks: 60**

**23BCADE2 Cyber Security**

**Course Outcomes:**

- CO1: Identify various types of cybercrime, tools used for gathering information about target.  
CO2: Assess different types of cyber-attacks, threats and the motives behind them  
CO3: Realize the cyber security tools to be precautions.  
CO4: Analyze the defense techniques suitable for the system.  
CO5: Apply the cryptographic techniques for securing the systems.

**Part – A**

**6x 1=6**

**Choose the correct answer**

1. Which malware is mostly used for stealing personal information while pretending to be legitimate software? CO1 K1  
a. virus      b. worm      c. Trojan horse      d. Ransomware
2. The Information Technology Act, 2000 mainly deals with CO1 K2  
a. Protection of intellectual property rights  
b. Regulation of electronic records, digital signatures, and cybercrimes  
c. Consumer rights in physical marketplaces  
d. Environmental protection and sustainability
3. Cyber bullying involves CO2 K2  
a. Physical threats only  
b. Teasing in school  
c. Harassing someone through digital devices and online platforms  
d. Reading private messages
4. Which law in India addresses child pornography and child abuse online? CO2 K2  
a. IT Act, Section 43  
b. POCSO Act  
c. RTI Act  
d. Copyright Act
5. Why is it important to regularly update cyber security policies? CO3 K2  
a. To make the document longer  
b. To reflect changes in technology and new threats  
c. To reduce internet speed  
d. To avoid employee complaints
6. Which of the following tools is primarily used for anonymous web browsing? CO3 K2  
a. NMap      b. Tor      c. Splunk      d. Nikto

**Part- B****3x6=18****Answer ALL Questions****Each answer should not exceed 400 words or two pages**

7. a. What is cyber-crime and what are some important cyber security rules & regulations?  
Explain with an example CO1 K2  
(or)
7. b. What is the role of international law and Indian cyber space? Explain CO1 K1
8. a. Explain the concepts of social engineering and DoS attack?  
Discuss how they work with examples. CO2 K3  
(or)
8. b. Explain the concepts of cyber-squatting and crypto jacking in detail.  
Analyze their impact and provide example. CO2 K3
9. a. What are the cyber security policies and standards?  
Explain their importance with examples. CO3 K3  
(or)
9. b. Write about some common cyber security tools and their uses. CO3 K2

**Part-C****3x12=36****Answer ALL questions****Each answer should not exceed 800 words or four pages**

10. a. Explain what malware is and describe its common types with example CO1 K2  
(or)
10. b. Describe cyber law, crime and punishments.  
Explain the Indian IT Act 2000 and its significance CO1 K3
11. a. Explain the following cyber threats with examples CO2 K3  
i) MITM attack (4)  
ii) Online job & payment fraud (4)  
iii) Sim swap scam (4)  
(or)
11. b. Explain the following cyber threats with examples CO2 K3  
i) Darknet (4)  
ii) Illegal trade (4)  
iii) drug trafficking (4)
12. a. Discuss the following cyber crimes in detail with examples CO2 K3  
i) cyber grooming (4)  
ii) child pornography (4)  
iii) cyber stalking (4)  
(or)
12. b. Write in detail about fundamental principles of cyber security and the challenges CO3 K3  
faced in implementing them.

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