



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. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – November 2025

V Semester

Class : III UG
Major: B.Com CA

Time: 3 Hours
Max. Marks: 100

23BCCSE3B Cyber Security

Course Outcomes:

CO1: Understand about the cyber space and cyber security threat

CO2: Acquire knowledge on various types of cyber-attacks, cyber-crimes, vulnerabilities and remedies thereto

CO3: Able to analyse the security aspects of social media platforms and ethical aspects associated with the use of social media

CO4: Capable to evaluate the digital payment system security and remedial measures against digital payment frauds.

CO5: Familiar with tools and techniques to secure the digital devices

Part A

10 x 1 = 10

Choose the Correct Answer

1. Which term best defines the global domain of interconnected digital technology? CO1 K1
a. Cyberspace b. Blockchain
c. Database d. Server farm
2. Which protocol is used for secure web communication? CO1 K1
a. FTP b. HTTP
c. HTTPS d. SMTP
3. Which Act governs cybercrime in India? CO2 K1
a. IT Act, 2000 b. IPC, 1860
c. Cybercrime Prevention Act d. Internet Regulation Act
4. Which organisation is part of cybercrime investigation in India? CO2 K1
a. CERT-In b. ICANN
c. NASSCOM d. UIDAI
5. Which is a method to report inappropriate content on social media? CO3 K1
a. Flagging b. Unfollowing
c. Retweeting d. Liking
6. Which law deals with posting inappropriate online content? CO3 K1
a. IT Act, 2000 b. Cyber Law of 1998
c. IPC Section 499 d. DNS Regulation Act
7. What is a major threat to E-commerce security? CO4 K1
a. Phishing attacks b. Barcode scanning
c. Cart abandonment d. Long delivery times
8. Which of the following is an Aadhaar-based payment system? CO4 K1
a. UPI b. AEPS
c. RTGS d. NEFT
9. Which of the following enhances Wi-Fi security? CO5 K1
a. WPA2 encryption b. Open access points
c. Disabling firewall d. Default SSID usage
10. What is the primary function of a host firewall? CO5 K1
a. Speeding up data transfer b. Filtering incoming/outgoing network traffic
c. Backing up data d. Managing software licenses

Part B
Answer ALL questions

5 x 6 = 30

Each answer should not exceed 400 words or two pages

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| 11.a. Define cyberspace and explain its architecture.
(or) | CO1 K4 |
| 11.b. Differentiate between Internet and World Wide Web. | CO1 K4 |
| 12.a. Describe the modus operandi of cybercriminals.
(or) | CO2 K4 |
| 12.b. Differentiate between malware and ransom ware. | CO2 K4 |
| 13.a. Describe the major types of social media platforms.
(or) | CO3 K3 |
| 13.b. Explain the term 'viral content' with example. | CO3 K3 |
| 14.a. Define E-commerce and list its essential components.
(or) | CO4 K3 |
| 14.b. Explain the security threats involved in E-Commerce platforms. | CO4 K3 |
| 15.a. What is endpoint device security? Explain with examples.
(or) | CO5 K4 |
| 15.b. Why is patch management important? | CO5 K4 |

Part C
Answer ALL questions

5 x 12 = 60

Each answer should not exceed 800 words or four pages

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| 16.a. Elaborate on the evolution and governance of cyberspace and its impact on security policies.
(or) | CO1 K4 |
| 16.b. What is cyber security? Discuss its significance in the present digital environment. | CO1 K4 |
| 17.a. Explain the classification of cybercrimes with suitable examples.
(or) | CO2 K3 |
| 17.b. Discuss the provisions of the IT Act, 2000, and its amendments concerning cybercrimes. | CO2 K3 |
| 18.a. Analyse the opportunities and pitfalls of social media networks.
(or) | CO3 K3 |
| 18.b. Discuss how are laws structured around social media content regulation? | CO3 K3 |
| 19.a. Explain the role of RBI and NPCI in securing digital payments.
(or) | CO4 K4 |
| 19.b. Discuss best practices for securing E-commerce and digital payment systems. | CO4 K4 |
| 20.a. Discuss mobile phone security threats and solutions.
(or) | CO5 K4 |
| 20.b. Explain the significance of creating and implementing a device security policy. | CO5 K4 |
