



R. Sambath

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 |
