

Dr. Babasaheb Ambedkar Open University
Term End Examination July – 2026

Course	: BSCCS	Date	: 19/07/2026
Subject Code	: BSCCS-304	Time	: 03:00pm to 05:15pm
Subject Name	: Principles of Cyber Security	Duration	: 2.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three)

(30)

1. Explain Attack OR Attack Vector in brief
2. Discuss the firewall and its types.
3. Explain the HTTP utilities in brief.
4. Write a short note on types of cybercrime in brief.
5. Why Hackers Hack?

Section B

Answer the following (Attempt any four)

(20)

1. Discuss the Denial-of-service(DOS) and Distributed Denial of Service(DDOS).
2. Explain the Iptables Architecture in brief.
3. List out the application inspection tools and explain any two.
4. Explain the cyberspace and criminal behavior.
5. Discuss the Cyber Security Policy Life Cycle in brief.
6. What is browser attacks? Explain it.

Section C

Part – A (Multiple Choice Questions)

(10)

- 1 Which of the following is a subset of Information Security?
A Network Security B Cyber Security
C Physical Security D Database Security
- 2 Which of the following is NOT a component of the CIA Triad?
A Confidentiality B Integrity
C Availability D Authentication
- 3 Which encryption technique uses two different keys?
A Caesar Cipher B Symmetric Encryption
C Asymmetric Encryption D DES
- 4 What is the primary purpose of a Firewall?
A Store data B Encrypt files
C Filter network traffic D Compress files
- 5 Which attack attempts to trick users into revealing sensitive information?
A SQL Injection B Phishing
C Brute Force D Brute Force
- 6 A DDoS attack is mainly intended to:
A Make a service unavailable B Scan ports
C Steal passwords D Encrypt data
- 7 Which attack exploits database queries in a web application?
A Cross-Site Scripting B SQL Injection
C Brute Force D Phishing
- 8 Password cracking tools are mainly used to:
A Design websites B Test password strength
C Encrypt databases D Monitor network traffic
- 9 Which of the following is an example of Intellectual Property?
A Firewall B Copyright
C Antivirus D Router

- 10 Which of the following protects inventions?
A Trademark B Patent
C Copyright D Firewall

Part – B (Do as Directed)

(10)

- 1 Cyber Security is a subset of Information Security.(True/False)
2 A Firewall is used to monitor and control incoming and outgoing network traffic.
(True/False)
3 A _____ attack tricks users into revealing confidential information through
fake emails or websites. Phishing
4 Password cracking tools are commonly used to test the strength of passwords.
(True/False)
5 _____ is a web application attack that injects malicious SQL queries into a
database. SQL Injection
6 Identity theft is not a considered a cybercrime. (True/False)
7 Copyright, Patent, and Trademark are forms of _____ Property Rights.
Intellectual
8 In India, cyber laws are primarily governed by the _____ Act, 2000.IT
9 Copyright, Patent, and Trademark are forms of Intellectual Property Rights.
(True/False)
10 A DDoS attack floods a server with excessive traffic to make it available to
users. (True/False)
