

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

Course : BCA
Subject Code : BCAIN-304 / BCAOL-304
Subject Name : cyber security

Date : 13-07-2026
Time : 11:30am to 01:45pm
Duration : 02.15 Hours
Max. Marks : 70

Section A

Answer the following (Attempt any three) **(30)**

1. What is cyber crime & its classifications? State reason behind committing cyber crimes.
2. Write detailed note on cyber security initiatives in India.
3. How to make wireless network secure? Discuss best practices to secure home Wi-Fi networks.
4. What is malware? State its types & their role in cyber crime activities.
5. Write detailed note on ethical hacking and penetration testing.

Section B

Answer the following (Attempt any four) **(20)**

1. Write a note on cyber crime types in brief.
2. What is password security? State best practices to make secure password.
3. Write note on role of social networks safety guidelines in this digital crime era.
4. Write steps to configure firewall in Windows OS.
5. What is hacking? Define different types of hackers & their roles.
6. State objectives of computer forensic. What are responsibilities of forensic investigator?

Section C

Part – A (Multiple Choice Questions) **(10)**

1. Which malware can replicate itself without human intervention?
A. Trojan Horse B. Spyware
C. Worm D. Adware
2. _____ technique converts readable data into unreadable form.
A. Authentication B. Encryption
C. Firewall D. Backup
3. Which type of hacker is also known as an Ethical Hacker?
A. Black Hat B. Grey Hat
C. White Hat D. Blue Hat
4. Which authentication method provides an extra layer of security?
A. OTP B. HTTP
C. FTP D. SMTP
5. _____ device or software protects a network from unauthorized access.
A. Modem B. Firewall
C. Hub D. Switch
6. Which cyber attack floods a network with unwanted traffic?
A. Phishing B. DoS Attack
C. Spamming D. Spoofing
7. Which security feature is used to verify the authenticity of a document?
A. Antivirus B. Firewall
C. Digital Signature D. Password

8. _____ browser feature helps protect users while browsing the Internet.
A. Firewall B. Private Browsing
C. Compiler D. Debugger
9. Which type of attack tricks users into revealing sensitive information?
A. Phishing B. Worm
C. Trojan Horse D. Botnet
10. Which process is used to collect digital evidence after a cyber crime?
A. Ethical Hacking B. Penetration Testing
C. Computer Forensics D. Encryption

Part - B (Do as Directed)

(10)

1. Firewall protects a network from unauthorized access. State True or False.
2. Write full form of VPN.
3. _____ is used to verify the authenticity of a digital document.
4. What is the full form of OTP?
5. A Worm requires human intervention to spread. State True or False.
6. _____ is the process of converting plain text into cipher text.
7. Name the software used to protect a computer from viruses.
8. Phishing is used to steal sensitive information. State True or False.
9. What is the full form of DNS?
10. A _____ attack floods a network with unwanted traffic.
