

D-1045

Sub. Code

51921

DISTANCE EDUCATION

DIPLOMA IN CYBER SECURITY EXAMINATION,
MAY 2023.

Second Semester

WEB APPLICATION SECURITY

(CBCS 2021 Calendar Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are the two types of Tags used in HTML?
2. What is DMZ in networking?
3. Define Web Penetration testing.
4. What do you mean by Core Defense Mechanisms?
5. List out the types of authentication attacks.
6. What is the difference between authentication and authorization?
7. List out the main types of access controls.
8. What is meant by Cross site Scripting?
9. Define the term malicious attack? Give examples.
10. How will you define server attacks?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b)

11. (a) Distinguish between Client-Side Scripting and Server-Side Scripting.

Or

- (b) Write short note on: LAMP.

12. (a) Briefly Explain Web Penetration Testing Methodology.

Or

- (b) What are the common Core Defense Mechanisms for securing web applications.

13. (a) What are the benefits of using a Web mapping Applications?

Or

- (b) Explain in detail about Web Application Technologies.

14. (a) Write a short note on Session Management.

Or

- (b) Explain the various categories of access controls?

15. (a) Write short note on: Cross site scripting.

Or

- (b) Briefly explain about attacking application architecture techniques.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe Web Server Architecture with neat diagram.
17. Elaborate in detail about types of Web Penetration testing.

18. Discuss about Web Application Technologies.
 19. Explain about Authentication hacking attacks.
 20. Describe about attacking Back — End Components.
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D-1046

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51922

DISTANCE EDUCATION

DIPLOMA IN CYBER SECURITY EXAMINATION,
MAY 2023.

Second Semester

MALWARE ANALYSIS AND NETWORK SECURITY

(CBCS 2021 Calendar Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List out any two goals of Malware Analysis?
2. What is AV Scanning?
3. Define Stack?
4. Define Global Variable?
5. List out the types of Malware Analysis?
6. What is a Breakpoint?
7. What are Proxies used for?
8. What is a Honey-pot?
9. What is Flooding Attack?
10. What is Sniffing?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b)

11. (a) What is Virtual Machine? State its usage in Malware Analysis ?

Or

- (b) Who is an Hacker? Write short notes on creating Fake Networks.

12. (a) Give an overview of X86 Architecture.

Or

- (b) Explain about Branching Instructions in X86 Architecture?

13. (a) Write about the Anti Dynamic Analysis Techniques.

Or

- (b) Give an brief account on Exception Handling?

14. (a) Explain about the types of Firewall?

Or

- (b) Briefly Explain about SysLog?

15. (a) Write short notes on Man-in-the Middle Act?

Or

- (b) Briefly Explain what you have understood about the Dark Web?

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss about how Malware is executed?
17. Discuss in detail about Portable Executable File Format?

18. Enumerate about the VM Detection techniques?
 19. Discuss about Intrusion Detection System?
 20. What is Wireshark? Discuss about the features of it?
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DISTANCE EDUCATION

DIPLOMA IN CYBER SECURITY EXAMINATION,
MAY 2023.

Second Semester

MOBILE SECURITY

(CBCS–2021 Calendar Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is Android?
2. List out the components of Android Framework.
3. What are the types of Permission in Android?
4. What is the use of APK?
5. Mention the Android device user types.
6. What is the External storage of Android devices?
7. What is meant by JCA?
8. Define Mobile Cryptography.
9. List out different types mobile device security.
10. What is meant by PKI?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b)

11. (a) Write short note on: Android Versions.

Or

- (b) Write short note on: Android Security Model.

12. (a) Briefly Explain the Nature of Permission.

Or

- (b) Write short note on: Content Provider Permission.

13. (a) Briefly Explain Android Application Package Format.

Or

- (b) How to verify Package? Explain.

14. (a) Describe about Types of Users.

Or

- (b) Explain External storage in mobile devices.

15. (a) Write short note on: Enterprise Security.

Or

- (b) How to use credential storage.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss Android Frame Work with Block Diagram.

17. Describe about custom Permission.

18. Explain in detail about APK install Process.
 19. Describe mobile application management.
 20. Explain About Cryptographic service providers.
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