

No. of Printed Pages : 8

**OSEI-044**

**ADVANCED CERTIFICATE IN  
INFORMATION SECURITY  
(ACISE)**

**Term-End Examination**

**December, 2021**

**OSEI-044 : SERVER SECURITY**

*Time : 2 Hours*

*Maximum Marks : 50*

*Note : Section A : Answer all the Objective type questions.*

*Section B : Answer all the Very short answer type questions.*

*Section C : Answer 2 out of 3 Short answer type questions.*

*Section D : Answer 2 out of 3 Long answer type questions.*

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**Section—A**

*Note : Attempt all the questions.*

10×1=10

1. In which of the following, a person is constantly followed or chased by another person or group of several people ?
  - (a) Phishing
  - (b) Bulling
  - (c) Stalking
  - (d) Identity theft
  
2. Which one of the following can be considered as the class of computer threats ?
  - (a) DOS Attack
  - (b) Soliciting
  - (c) Phishing
  - (d) None of the above

[ 3 ]

OSEI-044

3. Which one of the following is type of antivirus program ?
- (a) Quick heal
  - (b) McAfee
  - (c) Kaspersky
  - (d) All of the above
4. In the architecture of e-mail, we can have .....
- (a) 2 scenarios
  - (b) 3 scenarios
  - (c) 4 scenarios
  - (d) 6 scenarios
5. Which of the following is not an appropriate way to compromise web servers ?
- (a) Misconfiguration in OS

[ 4 ]

OSEI-044

- (b) Misconfiguration in networks
  - (c) Using network vulnerabilities
  - (d) None of the above
6. Which of the following is not an appropriate method of defacing web server ?
- (a) Mail server intrusion
  - (b) Web application bugs
  - (c) Web shares misconfiguration
  - (d) Session hijacking
7. .... is one of the most widely used web server platforms.
- (a) IIS
  - (b) IAS
  - (c) ISS
  - (d) AIS

P. T. O.

[ 5 ]

OSEI-044

8. Which of the following is not a web server attack type ?
- (a) DOS attack
  - (b) Website defacement using SQLI
  - (c) Directory traversal
  - (d) Password guessing
9. Interaction between the client and server starts via the ..... message.
- (a) Client-hi
  - (b) Client-hello
  - (c) Server-hello
  - (d) Server-hi
10. Which of the following is not on OWASP's top 10 web application security risks ?
- (a) Sensitive data exposure

[ 6 ]

OSEI-044

- (b) XML external entities
- (c) Non-compliance
- (d) Insecure deserialization

**Section—B**

**Note :** *Attempt all the very short answer type questions.*

11. What is Sender Policy Framework (SPF) ?  
Briefly discuss its utility. 2
12. Briefly discuss the limitations of POP and IMAP, that can be exploited by eavesdroppers.  
2
13. How E-mail is secured through SSL and TLS ?  
Discuss. 2
14. Discuss the term identity theft, with suitable example. 2
15. What is an RFC ? Briefly discuss its utility. 2

**P. T. O.**

[ 7 ]

OSEI-044

**Section—C**

*Note : Attempt 2 out of the 3 short answer type questions.*

16. Compare SSH and Kerberos. 5
17. Discuss SQL injection attack, with suitable example. 5
18. How 802.1X works on 802.11 wireless networks ? 5

**Section—D**

*Note : Attempt 2 out of 3 long answer type questions.*

19. What is a software patch ? Differentiate between security patches and hot patches. Also discuss the issues while creating software patches. 10

[ 8 ]

OSEI-044

20. Draw the block diagram of the windows system architecture, and discuss the components of user mode and kernel mode of windows system architecture. 10
21. What are firewalls ? Briefly discuss the utility of firewalls. What is the purpose of application layer firewall ? How is the firewall enabled in windows ? 10

OSEI-044

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