

**ADVANCED CERTIFICATE IN INFORMATION
SECURITY (ACISE)****Term-End Examination,****December 2019****OSEI-044 : SERVER SECURITY****Time : 2 Hours]****[Maximum Marks : 50**

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- Note :** (i) **Section-A** : Answer all the objective type questions.
(ii) **Section-B** : Answer all the very short answer type questions.
(iii) **Section-C** : Answer two out of three short answer type questions.
(iv) **Section-D** : Answer two out of three long answer questions.
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Section - A

Attempt all the questions.

10×1=10

- Which of the following passwords meets UCSC's password requirement?
(a) @#)\$*&^% (b) aKHGKSmLN
(c) UcSc4Evr! (d) Password 1
- The first computer virus is _____.
(a) I love you (b) Blaster
(c) Sasser (d) Creeper

(2)

3. The _____ translates internet domain and host names to IP address.
 - (a) Domain name system
 - (b) Routing information protocol
 - (c) Network time protocol
 - (d) Internet relay chat

4. What is the default port number for Apache and most web servers?
 - (a) 20
 - (b) 27
 - (c) 80
 - (d) 87

5. What is the maximum character Linux supports in its filenames?
 - (a) 8
 - (b) 128
 - (c) 256
 - (d) unlimited

6. Which of the following is not an example of operating system?
 - (a) Windows 98
 - (b) BSD Unix
 - (c) Microsoft Office XP
 - (d) Red hat Linux

7. The code segment that misuses its environment is called a _____.
 - (a) Internal thief
 - (b) Trojan horse
 - (c) Code stacker
 - (d) None

8. File virus attaches itself to the _____.
 - (a) Source file
 - (b) Object file
 - (c) Executable file
 - (d) All

(3)

9. IPsec is designed to provide the security at the _____
(a) Transport layer (b) Network layer
(c) Application layer (d) Session layer
10. In tunnel mode IPsec protects the _____.
(a) Entire IP packet (b) IP header
(c) IP payload (d) None

Section - B

Attempt all five very short answer type questions.

5×2=10

11. What are the basic steps in authentication process?
12. How are viruses spread?
13. What is Rootkit?
14. Explain phishing attack with an example.
15. Define Intrusion Detection System (IDS).

Section - C

Attempt 2 out of 3 long answer questions.

2×5=10

16. How are the passwords stored? Why is salt added to the hashed passwords? Describe with a diagram.
17. What can be done to stop wireless denial-of-service attacks?
18. What is Port scanning? Why Port scanning is important?

(4)

Section - D

Attempt any 2 out of 3 long answer questions. $2 \times 10 = 20$

19. What is Single-Sign-On (SSO)? Discuss three advantages of SSO.
20. What is a Botnet? How botnets can impact you? How to prevent your computer becoming part of a botnet?
21. Write short notes on the following :
 - a) POP3
 - b) HTTPS
 - c) SQL injection attack
 - d) Phishing
 - e) XSS Attack

