

00872

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

**Term-End Examination**

**June, 2016**

**OSEI-041 : INFORMATION SECURITY**

*Time : 2 hours*

*Maximum Marks : 50*

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

**Objective questions**

**(Attempt all the questions)**

- 1. A stateful firewall maintains a \_\_\_\_\_ , 1  
which is a list of active connections.
  - (a) routing table
  - (b) bridging table
  - (c) state table
  - (d) connection table
  
- 2. NTFS stands for \_\_\_\_\_ . 1
  
- 3. VOIP stands for \_\_\_\_\_ . 1

4. A firewall needs to be \_\_\_\_\_ so that it can grow with the network it protects. 1
- (a) robust
  - (b) expensive
  - (c) fast
  - (d) scalable
5. Accurate and complete data enters the system for processing and remains accurate thereafter, is said to have : 1
- (a) Integrity
  - (b) Security
  - (c) Viruses
  - (d) Accidental deletion
6. Worms and viruses are programs that can cause destruction of data and software, but they differ on how they spread and function. 1
- (a) True
  - (b) False
7. Inaccurate data entry, worms and viruses, fraud and hardware malfunction are ways which affects : 1
- (a) Data Security
  - (b) Users
  - (c) Software
  - (d) Database
8. How are viruses spread ? 1
- (a) Through firewalls
  - (b) downloading infected programs and files from internet
  - (c) Garbled information
  - (d) install anti-virus

9. \_\_\_\_\_ provides a connection-oriented reliable service for sending messages. 1
- (a) TCP
  - (b) IP
  - (c) UDP
  - (d) All of the above
10. A firewall is a secure and trusted machine that sits between a private and public network. 1
- (a) True
  - (b) False

### SECTION - B

Very short questions

(Attempt all the questions)

11. Define physical security. 2
12. What are the critical characteristics of information ? 2
13. What are the components of an information system ? 2
14. What is the difference between a threat agent and a threat ? 2
15. What is hacking ? 2

## SECTION - C

Short answer questions

(Attempt 2 out of 3 questions)

16. What are "computer worms" ? How they are different from "Computer Viruses" ? 5
17. What do you understand by cryptographic protocol ? Explain with the help of suitable examples. 5
18. Explain the role of security protocols. 5

## SECTION - D

Long answer questions

(Attempt 2 out of 3 questions)

19. Discuss in detail, how a computer system can be attacked ? Also discuss the protection measures. 10
20. What is authentication mechanism ? Explain in detail. 10
21. What is an information security blueprint ? Identify its major components and explain how it supports the information security program ? 10

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