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OSEI-041

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

**Term-End Examination**

**June, 2019**

**OSEI-041 : INFORMATION 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 any two questions out of three short answer type questions.*
- (iv) *Section D : Answer any two questions out of three long answer type questions.*
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**Section—A**

10×1

*Note : Attempt all the questions.*

1. Netscan Tool Pro is used for .....
2. Packet filtering is done in ..... layer of OSI model.

(A-54) P. T. O.

3. VOIP stands for .....
4. People who are involved in making cyber crimes are known as :
  - (a) Designers
  - (b) Crackers
  - (c) Administrators
  - (d) Developers
5. The translation of information into a secret code is known as .....
6. NAT stands for .....
7. .... is the application program that gathers user information and sends it to someone through the Internet.
8. MAN stands for .....
9. Malicious software is known as .....
10. .... provides a connection-oriented reliable service for sending messages.

### Section—B

#### (Very Short Answer Type Questions)

*Note : Attempt all the questions.*

11. What is hacking ?

12. Explain the difference between vulnerability and exposure. 2
13. What is network spoofing ? 2
14. Describe Data Repository Model. 2
15. What is Information Theft ? 2

### Section—C

*Note : Attempt two out of three short answer type questions.*

16. Explain in short 3-D secure protocol and IP Sec. (Internet Protocol Security). 5
17. What are the measures that may be taken for intrusion detection ? 5
18. What is a firewall ? Explain its functions in detail. Discuss the types of firewall. 5

### Section—D

#### (Long Answer Type Questions)

*Note : Attempt two out of three long answer type questions.*

19. Why Linux OS is better than Windows OS ? Explain in detail. Mention the ways to secure windows operating system. 10

20. What is Protocol ? What is the need of protocol ? Differentiate between the hardware and software protocol. 10
21. Describe vulnerabilities in information security with the explanation of any *three* Malicious Attacks. 10