

No. of Printed Pages : 6

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

00175

December, 2011

**MSEI-021 : INTRODUCTION TO INFORMATION
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 *any two* questions out of three.

Section (D) - Answer *any two* questions out of three.

SECTION - A

Objective type questions

(Attempt all the questions)

1. Which of the layers of OSI Model ensures that data is successfully sent and received between two computers ? 1
 - (a) Transport layer
 - (b) Network layer
 - (c) Application layer
 - (d) Session layer

2. _____ is a program designed to run other program on computer; 1
 - (a) Virus
 - (b) Application
 - (c) Operating system
 - (d) Malware

3. This attack requires that the hackers have access to network packets that come across the network : 1
- (a) Password Attack
 - (b) Application Attack
 - (c) DoS Attack
 - (d) Man-in-the-middle Attack
4. In networking, the term bandwidth refers to the measure of the capacity of a medium to transmit data : 1
- (a) TRUE
 - (b) FALSE
5. Vulnerability is a weakness that is inherent in every network and device, which includes : 1
- (a) Routers
 - (b) Switches
 - (c) Desktops and Servers
 - (d) All of the above
6. An Organised collection of software that controls the overall operation of a computer and supervises the execution of other programs is known as : 1
- (a) Operating System
 - (b) Server
 - (c) Web World Wide
 - (d) Network

7. Multitasking refers to running of the multiple independent computer programs on _____; 1
- (a) Different Computers
 - (b) Virtualization
 - (c) Same Computers
 - (d) Client - Server
8. Which topology is referred to as hub-and-spoke topology; 1
- (a) Star (b) Ring (c) Bus (d) Tree
9. Examples of DDoS attacks include the following; 1
- (a) Smurf (b) Tribe Flood Network
 - (c) Stacheldraht (d) All of the above
10. Features of Networking are; 1
- (a) Sharing of computer resources
 - (b) Helps in sharing of software
 - (c) Helps in communication
 - (d) All of the above

SECTION - B

Very short Answer type questions.

(Attempt all the questions)

11. What do you understand by OS Hardening ? 2
12. Define FTP & DNS Servers. 2
13. Write a small note on Fiber Optics. 2
14. What do you understand by GUI (Graphical User Interface) ? Give two Examples. 2
15. Explain Multitasking ? 2

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SECTION - C

Short Answer type questions

(Attempt 2 out of 3 short type questions)

16. Explain the concept of Information Security and describe its principles. 5
17. What do you mean by topology ? Explain any three types of topologies in detail. 5
18. Which precautions are supposed to be taken for Operating Systems Security ? 5

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SECTION - D

Long Answer type questions

(Attempt 2 out of 3 long type questions)

19. Explain active directory structure ? List out the partitions of directory tree and write down the active application mode. 10
20. What is Network Management and explain which activities comprise of it and also explain its available frameworks. 10
21. Explain the basic security threats and their corrective measures in detail. 10

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No. of Printed Pages : 6

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination 00579
June, 2012

**MSEI-021 : INTRODUCTION TO INFORMATION
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 *any two* questions out of *three*.
Section 'D' - Answer *any two* questions out of *three*.

SECTION - A

Objective type questions

1x10=10

(Attempt all the questions)

1. The types of Software are :

1

- (a) System Software
- (b) Application Software
- (c) Utility Software
- (d) All of the above.

2. ICMP stands for : 1
- (a) Internet Control Message Protocol
 - (b) Internet Control Mail Protocol
 - (c) Internet Centre Message Protocol
 - (d) None of the above
3. Characteristics of a Virus are : 1
- (a) Size and versatility
 - (b) Propagation and Effectiveness
 - (c) Functionality and Residence
 - (d) All of the above
4. The goal of computer security is the protection of information stored on the computer system. 1
- (a) True
 - (b) False
5. It translate the program line by line : 1
- (a) Interpreter
 - (b) Compiler
 - (c) Executable code
 - (d) Source code
6. It helps to block undesired Internet Traffic, from accessing your computer : 1
- (a) Switch
 - (b) Server
 - (c) Router
 - (d) Firewall

7. ICMP messages are used by ping command to test : 1

- (a) Network connectivity
- (b) Reachability
- (c) Availability
- (d) All of the above

1

8. Viruses can be classified on the basis of :

- (a) What they effect
- (b) How they effect
- (c) Where they effect
- (d) All of the above

9. It integrates the Star and Bus topologies in a hybrid approach to improve network scalability : 1

- (a) Star
- (b) Mesh
- (c) Bus
- (d) Tree

10. These Servers are used to provide file upload and download capabilities to users : 1

- (a) DNS Server
- (b) SAMBA Server
- (c) FTP Server
- (d) DHCP Server

SECTION - D

Long Answer type Questions

2x10=20

(Attempt 2 out of 3 long type questions)

19. Differentiate between Threats, Attacks and Vulnerabilities with examples of each. 10
20. What is network Hardening ? Write a comparison between LAN, WAN, MAN ? 10
21. What is Malware ? What kind of precautions can we use to overcome the Virus problem ? 10

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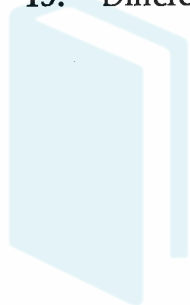
SECTION - B

Very Short Answer type Questions

2x5=10

(Attempt all the questions)

11. Write short note on Internet ? 2
12. What is a Virus and what are its Symptoms ? 2
13. Differentiate between DOS and DDOS Attacks ? 2
14. What do you mean by Cryptography ? 2
15. Differentiate between Interpreter and Compiler. 2



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SECTION - C

Short Answer type Questions

2x5=10

(Attempt 2 out of 3 short type questions)

16. Explain any three types of network attacks in detail. 5
17. What is Network Security and why is it important ? 5
18. What is an Operating System ? Explain its functions and any two types of Operating System. 5



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No. of Printed Pages : 6

MSEI-021

P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination

December, 2012

01972

MSEI-021 : INTRODUCTION TO INFORMATION 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 *any two* questions out of *three* short answer type questions.
Section 'D' - Answer *any two* questions out of *three* long questions.

SECTION - A

(Attempt all the questions)

10x1=10

1. URL stands for _____.
- (a) Universal Resource Locator
 - (b) Univerm Resource Location
 - (c) Uniform Resource Latitude
 - (d) None of these

2. A program or software develops to solve a problem on a computer is called _____. It refers to software which processes data to structure or automate specific business process or it consists of programmes which direct computers to perform specific information activities for end user.
3. OS/2 and PC-DOS, both are commonly used as _____.
4. .mil domain extensions are used for _____ websites.
5. Grey Hat Hackers are also known as cyber criminals.
(a) True (b) False
6. Path determination and logical addressing are done on _____ of OSI model.
7. CMIP stands for _____ and ICMP stands for _____.
8. Panda and Trend Micro are the two most common viruses which can harm your operating system.
(a) True (b) False

9. PC-DOS is developed by delegating Operating Services in 1981.
- (a) True (b) False
10. Three modes of data transmission are :
- (a) _____
- (b) Half Duplex mode
- (c) Full Duplex mode

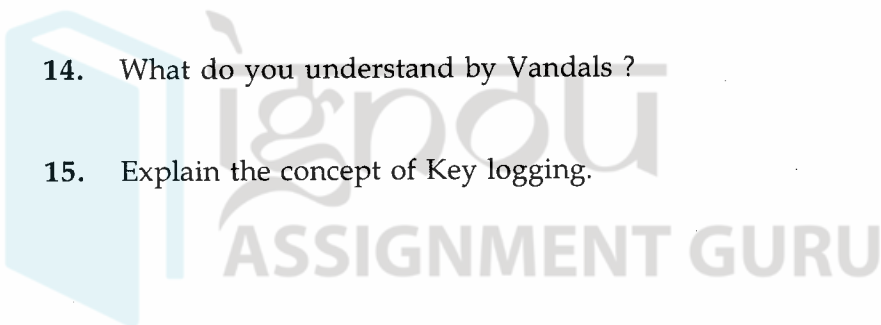


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SECTION - B

(Very Short answer type questions. Attempt all the questions) 5x2=10

11. Define Firewall and Proxy Server.
12. Write a short note on Encryption and Decryption of Data.
13. Explain P2P Network topology.
14. What do you understand by Vandals ?
15. Explain the concept of Key logging.



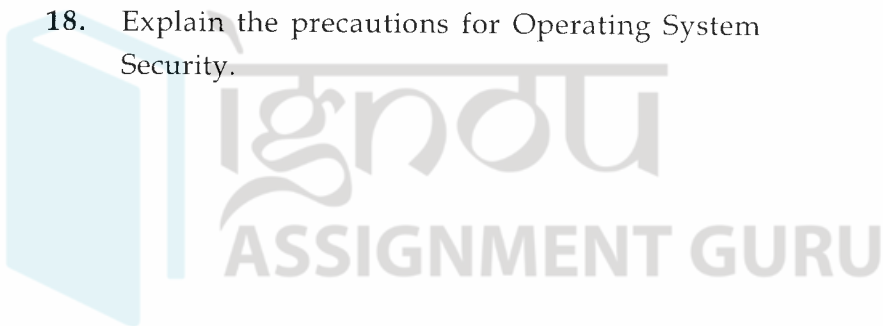
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SECTION - C

(Attempt *any two* out of three short answer type questions)

2x5=10

16. Explain ISO-OSI model with diagram and explain each layer in brief.
17. Explain Operating System and What is the use of Operating System ?
18. Explain the precautions for Operating System Security.



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SECTION - D

(Attempt *two* out of *three* long questions) 2x10=20

19. Explain the types of Operating System with examples.
20. What are computer Programming Languages ? Name some examples of computer programming languages. What is the difference between Interpreter and Compiler ?
21. Explain the given terms :
 - (a) Trojan Horse
 - (b) Worms
 - (c) Cyber Pornography
 - (d) Sniffing
 - (e) Firewall

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No. of Printed Pages : 2

MSEI-021(P)

**POST GRADUATE DIPLOMA IN
INFORMATION SECURITY (PGDIS)**

Term-End Practical Examination

December, 2012

**MSEI-021 (P) : INTRODUCTION TO
INFORMATION SECURITY**

Time : 3 hours

Maximum Marks : 100

-
- Note :** (i) Attempt *any 2* questions out of 3 questions.
carrying **40** marks each.
- (ii) Viva - voce carries **20** marks.
-

1. Apply the Network sniffers to capture the Network packets for 15 minutes and display the report on the basis of following conditions. **40**
- (a) List all the packets captured for the given Source Ip xxx.xxx.x.xx.
- (b) List all the captured packets of the destination IP where the list must be in decending order according to the protocol.
- (c) Retrive the content, headder details of (http ://) protocol for any IP address
- (d) List the source IP address who have visited google/Gmail domains.

2. Implement 10 security policies related to OS, Network, web browser, Application, hardware, user privileges etc. 40
 3. Impliment the Security policies to monitor the employee activities in the network. 40
-



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No. of Printed Pages : 5

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

00036

June, 2013

**MSEI-021 : INTRODUCTION TO INFORMATION
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 *any two* questions out of three short answer type questions.
Section 'D' - Answer *any two* questions out of three long questions.

SECTION - A

(Attempt *all* the questions)

10x1=10

1. NIC Stands for _____. 1
- (a) Network Indian Card
 - (b) Network Inferior Card
 - (c) Network Interface Card
 - (d) None of these

2. Network _____ forward traffic to and from computer on internal Network and filter that traffic to and from computer on an internal network and filter that traffic based in the criteria the administrator has set. 1
3. Panda and Trend Micro both are commonly used as _____. 1
4. Three modes of data transmission are : 1
 - (a) _____
 - (b) Full Duplex Mode
 - (c) Half Duplex Mode
5. Black Hat Hackers are also called as cyber criminals. 1
 - (a) True
 - (b) False
6. Data Encryption and Decryption are done on _____ of OSI model. 1
7. CMIP stands for _____ and IPS stands for _____ 1
8. SAMBA and Panda are two most common viruses which can harm your operating system. 1
 - (a) True
 - (b) False
9. DOS was developed by IBM in 1981 : 1
 - (a) True
 - (b) False
10. .nic domain extensions are used for _____ websites. 1

SECTION - B

(*Very Short* answer type Questions)

Attempt *all* the questions.

5x2=10

11. What is the difference between Grey Hat Hackers and Black Hat Hackers ? 2
12. Write a short note on Cyber Pornography and E - mail Bombing. 2
13. Explain Brute - force computation. 2
14. What do you understand by Port Redirection ? 2
15. Explain the concept of Encryption. 2

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SECTION - C

(Attempt *any 2 out of 3* short answer type questions) :

2x5=10

16. Explain Cryptography and Overview of SSL Handshake. 5
17. Explain operating system and what is the use of operating system. 5
18. Write a short note on "Desktop Alone" and "Server - Based Antivirus" in Antivirus Deployment. 5

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SECTION - D

(Attempt *any 2 out of 3* long questions) : 2x10=20

19. What is SNMP Management Frame Work ? Also 10
define its Basic components.
20. Explain the Computer Programming languages. 10
Name some examples of Computer Programming
languages. What is the difference between
Interpreter and compilers ?
21. Write *Short note* on the following : 2x5=10
- (a) Hackers
 - (b) Cyber Pornography
 - (c) SMI and MBI
 - (d) Phishing
 - (e) Cyber Crime Investigation

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No. of Printed Page : 1

MSEI-021(P)

00261

POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Practical Examination

December, 2013

MSEI-021 (P) : INTRODUCTION TO INFORMATION SECURITY

Time : 3 hours

Maximum Marks : 100

Note : (i) Attempt *any two* questions out of *three* carrying
40 marks each.

(ii) Viva - voce carries 20 marks.

1. Implement any firewall and try to block the ping request, also implement users and group policies so that user can not install, add or remove the programmes. 40
2. Implement the MS excel sheet with password security and try to crack the passkey by using any tools available on internet. 40
3. Try to use any sniffer and filter and filter the ARP capture packets and list the MAC addresses which were broadcasted on the network with their details and generate the final report in a doc file. Recommended to captures atleast 10 ARP packets. 40

No. of Printed Pages : 3

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

December, 2013

**MSEI-021 : INTRODUCTION TO INFORMATION
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 *any two* questions out of three.

Section 'D' - Answer *any two* questions out of three.

SECTION - A

Objective type questions. (Attempt all the questions.)

1. FTP stands for _____. 1
 - (a) File Transforming Protocol
 - (b) File Transformation Protocol
 - (c) File Transport Protocol
 - (d) None of these
2. _____ refers to all programmes that make the computer work. It manages the resources of the computer such as the central processor, communications links and input / output devices. 1
3. _____ is the powerful version of _____ and is completely free of cost, it offers multi tasking, virtual memory management and TCP/IP networking etc. 1

4. In DOS Attack “ DOS ” stands for “ Disk Operating System”. 1
(a) True (b) False
5. Black Hat Hackers are the Hackers known as “ Cyber Criminals” 1
(a) True (b) False
6. CMIP stands for _____. 1
(a) Common Management In Protocol
(b) Common Management Inter Protocol
(c) Common Management Internet Protocol
(d) None of these
7. IDPS and IPS stands for _____ and _____. 1
8. SMB and SAM stands for _____ and _____. 1
9. One of the well known webserver is SAMBA : 1
(a) True (b) False
10. GUI stands for Graph User Interface 1
(a) True (b) False

SECTION - B

Very short type questions. (Attempt all the questions)

11. Explain SAMBA. 2
12. Write a short note on “Network Firewall” and “Antivirus Software” 2
13. What is operating system? Explain. 2
14. Write any two precautions for operating system security. 2
15. Explain Phishing Attack. 2

SECTION - C

Short answer type questions. (Attempt 2 out of 3 questions.)

16. Explain the difference between 'LINUX' and "UNIX" operating system. 5
17. Explain Half Duplex and Full Duplex mode of Data Transmission. 5
18. What are the two methods for computing passwords ? 5

SECTION - D

Long answer type questions. (Attempt 2 out of 3 questions)

19. Explain the layers of OSI Model. 10
20. Answer the following (Attempt all the parts). 5x2=10
- (a) What is operating system ?
 - (b) Write a short note on " History of operating system".
 - (c) What are the types of operating system ?
 - (d) What are the uses of operating system ?
 - (e) What is the use of Real Time Operating System ?
21. Explain the given terms : 5x2=10
- (a) E-mail
 - (b) GOPHER
 - (c) Cyber crime
 - (d) USNET
 - (e) Firewall and its security
-

No. of Printed Pages : 1

MSEI-021 (P)

POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Practical Examination

00172

June, 2014

MSEI-021 (P) : INTRODUCTION TO INFORMATION SECURITY

Time : 3 hours

Maximum Marks : 100

Note : (i) Attempt any **two** questions out of three. Each question carries 40 marks.
(ii) Viva-voce carries 20 marks.

1. Implement the SAMBA server and share at least 4 folders to the specific user with passkey authentication where the conditions are as following for the folders : 40
Folder 1 : Permitted to "user1" with read and write permission.
Folder 2 : Permitted to "user2" with read and write permission.
Folder 3 : Permitted to "user1" with read only permission and permitted to "user2" with read and write permission.
Folder 4 : Permitted to "user2" with read only permission and no permission to "user1".
2. Define the topology used in LAN and scan the network with their IP, MAC Address, Host Name, User Name and with their operating system details of at least 10 machines, etc. and finally generate the report. 40
3. Try to use any sniffer and filter the ARP captured packets and list the MAC address, which were broadcasted to the network with their details and finally generate the report. Recommended to capture at least 10 ARP packets. 40

No. of Printed Pages : 3

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

June, 2014

**MSEI-021 : INTRODUCTION TO INFORMATION
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 any two questions out of three.

Section 'D' - Answer any two questions out of three.

SECTION - A

Objective type questions.
(Attempt all the questions)

1. NNTP stands for _____. 1
(a) Network News Transforming Protocol
(b) Network News Transfer Protocol
(c) Network News Transport Protocol
(d) None of these
2. RBAC stands for _____. 1
3. DMZ stands for _____. 1
4. In FTP server, "FTP" stands for "File Transport Protocol". 1
(a) TRUE (b) FALSE

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1

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5. White Hat Hackers are also known as Cyber Security Professionals. 1
(a) TRUE (b) FALSE
6. The SNMP OID stands for _____ which is assigned to an individual object within a management information base. 1
(a) Object In Decoding
(b) Object In Decoders
(c) Object In Defender
(d) None of these
7. SMB and SAM stands for _____. 1
8. IDPS and IPS stands for _____. 1
9. One of the well known Operating System is "Microsoft Windows Defender". 1
(a) TRUE (b) FALSE
10. GUI stands for "Graphical User Interface". 1
(a) TRUE (b) FALSE

SECTION - B

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Very short answer type questions.

(Attempt **all** the questions)

11. Explain "Security Model". 2
12. Explain "The Phishing Attack". 2
13. What are FTP servers ? Explain. 2
14. Write a short note on MIB. 2

15. Write a short note on “Network Firewall” and “Antivirus Software”. 2

SECTION - C

Short answer type questions.
(Attempt 2 out of 3 questions)

16. What is CMIP ? 5
17. What is CSMA - CD ? Explain. 5
18. Write a short note on fiber optics. 5

SECTION - D

Long answer type questions.
(Attempt 2 out of 3 questions)

19. Explain the following : 2.5x4=10
- (a) DHCP Server
 - (b) NNTP Server
 - (c) DNS Server
 - (d) SMTP Server
20. Answer the following (Attempt both parts). 10
- (a) Write a short note to “Avoid/Handle” Virus and Worms.
 - (b) Short note on Firewall and its Security.
21. Explain the given terms : 2x5=10
- (a) Main frames
 - (b) TCP/IP
 - (c) Cryptography
 - (d) USNET
 - (e) SSL

No. of Printed Pages : 1

MSEI-021 (P)

POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Practical Examination

00904

December, 2014

MSEI-021 (P) : INTRODUCTION TO INFORMATION SECURITY

Time : 3 hours

Maximum Marks : 100

Note : (i) *Attempt 2 out of 3 questions. Each question carries 40 marks.*
(ii) *Viva-voce carries 20 marks.*

1. Implement the Network Sniffers to find out the usernames and passwords by retrieving the packets from **http** POST on any website. 40
 2. Create 4 users with the different privileges on their folders and share their folders using Samba/ADC on the Network. 40
 3. By using the concepts of Operating System Security apply the filters as follows : 40
 - (a) Display the hidden files in the folder.
 - (b) User should not be able to install any software.
 - (c) User cannot access the folder.
 - (d) User cannot access the Windows Registry.
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No. of Printed Pages : 4

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

00704 December, 2014

**MSEI-021 : INTRODUCTION TO INFORMATION
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 any **two** out of three short answer type questions.*

*Section D – Answer any **two** out of three long answer type questions.*

SECTION A

Attempt all the questions.

10×1=10

1. Data transmission rates are stated in terms of the _____ that can be transmitted per second. 1
2. CMIP stands for _____. 1

3. A _____ is a group of components that collectively form a barrier between two networks. 1
 4. The prevention against virus is to install _____ software. 1
 5. Software piracy is illegal. True or False ? 1
 6. Cryptography is the process of converting between readable text called _____ and an unreadable form called _____. 1
 7. VPNs stands for _____. 1
 8. A _____ refers to a skilled hacker who sometimes acts legally, sometimes in good will and sometimes not. 1
 9. _____ is the technology that aids in gathering information about a person or organisation without their knowledge. 1
-
10. _____ refers to the practice of registering domain names with the desire of selling it at higher prices. 1

SECTION B

Very short answer type questions. Attempt all the questions.

11. Differentiate between the following : 5×2=10

- (a) Primary storage and Secondary storage
- (b) Compiler and Interpreter
- (c) WAN and MAN
- (d) Analog data transmission and Digital data transmission
- (e) Internet and Extranet

SECTION C

Attempt any two out of three short answer type questions. 2×5=10

12. What are the reasons for hacking ? 5

13. Computer virus involves various stages right from its design to elimination. Explain these stages. 5

14. What are the key steps that every company implementing an Information Security Management System should consider ? 5

SECTION D

*Attempt any **two** out of three long answer type questions.* *2×10=20*

15. Advertisers have to take extra care when advertising to children. What are the legal and ethical issues involved in advertising potentially harmful products and using psychological tactics to stimulate demand ? 10

16. Suggest some basic guidelines that must form the core of any information security awareness programme so that the users may become educated and informed to gauge the level of threat in order to be able to take further corrective measures. 10

17. Information Security is multi-divisional and multi-disciplinary in nature. Do you agree ? Explain in detail. 10

No. of Printed Page : 1

MSEI-021 (P)

**POST GRADUATE DIPLOMA IN
INFORMATION SECURITY (PGDIS)**

Term-End Practical Examination

June, 2015

**MSEI-021 (P) : INTRODUCTION TO
INFORMATION SECURITY**

Time : 3 hours

Maximum Marks : 100

Note : (i) Attempt 2 out of 3 questions. Each carries 40 marks.
(ii) Viva voce carries 20 marks.

1. Try to attempt DOS/DDOS Attack on the target computer and display the list of IP's who attacked on the target computer with their access details like Date/Time/IP Address etc. and prevent the DDOS Attack by using any firewall. **40**
2. By using the concepts of operating system security apply the filters as follows : **40**
 - (a) Block the USB.
 - (b) User not able to change the network settings.
 - (c) User cannot access the windows Registry.
 - (d) User cannot access the Folder/Drive.
3. Create 4 users with the different privileges on their folders and share their folders using Samba/ADC on the Network. **40**

No. of Printed Pages : 3

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

June, 2015

**MSEI-021 : INTRODUCTION TO INFORMATION
SECURITY**

Time : 2 hours

Maximum Marks : 50

- 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.*

SECTION - A

(Answer all the questions)

10x1=10

1. The topology when each network host is connected to a central point in LAN is called _____. **1**
2. To make an attempt for making computer resources unavailable to the intentional user is called _____. **1**
3. _____ refers to the running of multiple independent computer programs on the same computer. **1**

4. _____ is the unauthorized discovery and mapping of systems, services or vulnerabilities. 1
5. Full duplex system permits information to flow simultaneously in both directions on the transmission path. (True or False) 1
6. Networks used to interconnect computers in a single room, in a building or buildings in one site are called _____. 1
7. _____ can be defined as copying and using commercial software purchased by someone else. 1
8. _____ is a process used in information security to prevent the information from unauthorized or accidental disclosure while the information is being transmitted and while information is in storage. 1
9. _____ are viruses which change their characteristic after each infection. 1
10. The process of eliminating all errors and suitable modifying instructions to help the process is called _____. 1

SECTION - B

(Very short answer type questions. Attempt all the questions) 5x2=10

11. Differentiate between the following :
 - (a) System software and Application software
 - (b) Star topology and Mesh topology

- (c) Linux and Unix Operating Systems
- (d) Machine language and Assembly language
- (e) Analog computers and Digital computers

SECTION - C

(Attempt **any two** out of three short answer type questions)

2x5=10

- 12. Explain the computer worms. **5**
- 13. How ethics can make you a better employee in the workplace ? Explain. **5**
- 14. What is virus ? What kind of protection can be used to overcome virus problem ? **5**

SECTION - D

(Attempt **two** out of three long answer type questions)

2x10=20

- 15. Explain the need of Information Security Awareness from a point of view of both the end user as well as the organization. **10**
- 16. Operating system acts as a resource manager because it controls all parts of the computer. Do you agree ? Explain in detail. **10**
- 17. It is the duty of the business officials and employees to keep certain business and personal information confidential. Suggest the different steps to be taken for maintaining confidentiality in any organization. **10**

No. of Printed Pages : 1

MSEI-021 (P)

00489

**POST GRADUATE DIPLOMA IN
INFORMATION SECURITY (PGDIS)**

Term-End Practical Examination

December, 2015

**MSEI-021 (P) : INTRODUCTION TO
INFORMATION SECURITY**

Time : 3 hours

Maximum Marks : 100

Note : (i) *Attempt 2 out of 3 questions. Each carries 40 marks.*

(ii) *Viva - voce carries 20 marks.*

1. Implement the PHP server on local host and share at least three folders with user authentication. **40**
2. Implement the sniffers to capture the packets and filter those packets for source IP Address in descending order. **40**
3. Target any domain name e.g. "anupgirdhar.net" to gather the information of the domain which include the IP, DNS, Registrar information, Contact details, Site creation, Updation and Expiry date etc. along with the list of IP Addresses route under source IP to destination IP. **40**

No. of Printed Pages : 3

MSEI-021

P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination

December, 2015

MSEI-021 : INTRODUCTION TO INFORMATION SECURITY

Time : 2 hours

Maximum Marks : 50

- Note :**
- (i) **Section 'A'** - Answer *all* 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.

SECTION - A

Objective type question.

(Attempt **all** the questions)

1. It translate the program line by line : 1
 - (a) Interpreter (b) Compiler
 - (c) Executable code (d) Source code
2. _____ helps to block undesired internet traffic, from accessing your computer. 1
3. IDPS stands for _____. 1
4. To protect against malicious attacks, what should you think like ? 1
 - (a) Hacker (b) Network admin
 - (c) Spoofer (d) Auditor

5. DDOS stands for _____. 1
6. Hub concept is used in _____ topology. 1
(a) ring (b) star
(c) bus (d) tree
7. _____ memory uses a hard disk, to store 1
parts of programs that are currently running and
cannot fit in RAM.
8. URL stands for _____. 1
9. A _____ is a type of virus that neither 1
replicates nor copies itself to anything.
10. DMZ stands for _____. 1

SECTION - B

Very short type questions.

(Attempt **all** the questions)

11. What is the difference between a threat agent and 2
a threat ?
12. What do you understand by Port Redirection ? 2
13. Explain Phishing Attack. 2
14. What is anti-virus software ? Why it is used ? 2
15. What do you understand by Operating System 2
Hardening ?

SECTION - C

Short answer type questions.

(Attempt 2 out of 3 short type questions)

16. Explain any three types of network attacks in detail. 5
17. Explain ISO - OSI model with diagram and explain each layer in brief. 5
18. Explain the concept of Information Security and describe its principles. 5

SECTION - D

Long answer type questions.

(Attempt 2 out of 3 questions)

19. Explain the types of operating systems with examples. 10
20. Explain the basic security threats and their corrective measures in detail. 10
21. Write a short note on the following : 5+5
- (a) Half Duplex and Full duplex mode.
 - (b) Cyber Crime

No. of Printed Pages : 1

MSEI-021 (P)

00299

**POST GRADUATE DIPLOMA IN
INFORMATION SECURITY (PGDIS)**

Term-End Practical Examination

June, 2016

**MSEI-021 (P) : INTRODUCTION TO
INFORMATION SECURITY**

Time : 3 hours

Maximum Marks : 100

Note : (i) Attempt 2 out of 3 questions. Each carries 40 marks.

(ii) Viva - voce carries 20 marks.

1. Try to send windows shut down command using command prompt to another system by spoofing/hiding your IP address. 40
2. Try to bring down server availability using ping of death attack and explain the mechanism to prevent this from happening. 40
3. Target any domain. For example, consider "www.achinjain.com" to gather following information : 40
 - (a) Daily page view
 - (b) Source of maximum traffic
 - (c) Most popular page of website
 - (d) WHOIS information

No. of Printed Pages : 5

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

June, 2016

00954

**MSEI-021 : INTRODUCTION TO INFORMATION
SECURITY**

Time : 2 hours

Maximum Marks : 50

- 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.*

SECTION - A

Objective type questions

(Attempt all the questions)

1. Which of the following computer security threats can be updated automatically and remotely ? 1
(Select best answer)
- (a) Virus
 - (b) Worm
 - (c) Zombie
 - (d) Malware

2. Which of the following is **not** an example of malicious software ? 1
- (a) Root kits
 - (b) Spyware
 - (c) Viruses
 - (d) Browser
3. Which type of attack uses more than one computer ? 1
- (a) Virus
 - (b) DOS
 - (c) Worm
 - (d) DDOS
4. Which of the following does **not** need updating ? 1
- (a) HIDS
 - (b) Antivirus Software
 - (c) Pop-up blockers
 - (d) Antispyware
5. What is a malicious attack that executes at the same time every week ? 1
- (a) Virus
 - (b) Worm
 - (c) Bluejacking
 - (d) Logic bomb

6. DDOS stands for _____. 1
7. Which topology is referred to as hub-and-spoke topology ? 1
- (a) Star
 - (b) Ring
 - (c) Bus
 - (d) Tree
8. The process of a computer receiving information from a server on the internet is known as : 1
- (a) downloading
 - (b) pulling
 - (c) transferring
 - (d) uploading
9. In order to view pages on a website, the user needs to enter the site address called : 1
- (a) Uniform Resource Locator
 - (b) email address
 - (c) postal address
 - (d) MAC address
10. Memory stores : 1
- (a) the operating system
 - (b) application programs
 - (c) the data being processed by the application programs
 - (d) all of the above

SECTION - B

Very short answer type questions

(Attempt all the questions)

11. Differentiate between SYN flood and ICMP flood. 2
12. What makes DDOS attacks possible ? 2
13. Write short note on MIB. 2
14. Differentiate between Interpreter and Compiler. 2
15. Write a short note on Encryption and Decryption of data. 2

SECTION - C

Short answer type questions

(Attempt 2 out of 3 questions)

16. Explain Network Management Architecture. 5
17. What is Network Security and why it is important ? 5
18. What is cryptography ? Why is it important ? 5

SECTION - D

Long answer type questions

(Attempt 2 out of 3 questions)

19. Give the five basic steps used by computer hackers to gain unauthorized access over a computer system. **10**
20. Consider online examination system, where students can login and answer questions online. For this system, identify vulnerability, threats and attacks. **10**
21. Write short notes on the following : **5+5**
- (a) Firewall
 - (b) File Server

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No. of Printed Pages : 4

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

December, 2016

**MSEI-021 : INTRODUCTION TO INFORMATION
SECURITY**

Time : 2 hours

Maximum Marks : 50

- 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.*
 - (iv) *Section D - Answer any two questions out of three.*

SECTION - A

Objective type questions **10x1=10**
(Attempt all the questions)

1. Data Encryption are done on _____ of OSI model.
2. NIC stands for _____.
3. An assembler is _____ dependent.
4. IDPS stands for _____.

5. The 4 byte IP address consists of :
- (a) network address
 - (b) host address
 - (c) both (a) and (b)
 - (d) none of the mentioned
6. The network layer protocol of internet is :
- (a) ethernet
 - (b) internet protocol
 - (c) hypertext transfer protocol
 - (d) none of the above
7. Multidestination routing :
- (a) is same as broadcast routing
 - (b) contains the list of all destinations
 - (c) data is not sent by packets
 - (d) none of the above
8. Security weaknesses can always be entirely eliminated :
- (a) True
 - (b) False
9. Account expiration is the same as password expiration :
- (a) True
 - (b) False
10. By default, a digital signature provides encryption for a message :
- (a) True
 - (b) False

SECTION - B

(Very short answer type questions. 5x2=10)

Attempt all the questions)

11. What is Virus and what are its symptoms ?
12. Explain the concept of Encryption.
13. Explain Operation System.
14. Explain Brute-force computation.
15. What do you mean by cryptography ?

SECTION - C

(Attempt any 2 out of 3 short answer type questions)

2x5=10

16. What is Network Security and why is it important ?
17. Explain cryptography and overview of SSL Handshake.
18. What are the two methods for computing passwords ?

SECTION - D

(Attempt **any 2** out of 3 long questions) **2x10=20**

19. What is Malware ? What kind of precautions can we use to overcome the virus problem ?
20. What is cryptanalysis ? Explain in brief differential and linear cryptanalysis.
21. Write short notes on the following :
 - (a) Hacktivism
 - (b) Cyber crime investigation
 - (c) File Servers
 - (d) SMI and MBI
 - (e) Logic Bomb

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No. of Printed Pages : 1

MSEI-021 (P)

**POST GRADUATE DIPLOMA IN
INFORMATION SECURITY (PGDIS)**

Term-End Practical Examination

December, 2016

**MSEI-021 (P) : INTRODUCTION TO
INFORMATION SECURITY**

Time : 3 hours

Maximum Marks : 100

Note : (i) *Attempt any two questions out of three. Each question carries 40 marks.*
(ii) *Viva - voce carries 20 marks.*

1. Try to use any sniffer and filter the ARP capture packets and list the MAC addresses which were broadcasted on the network with their details and generate the final report in a doc file. **40**
Recommended to capture at least 10 ARP packets.
2. By using the concepts of operating system security apply the filters as follows : **40**
 - (a) Display the hidden files in a folder.
 - (b) User should not be able to install any software.
 - (c) User cannot access the folder.
 - (d) User cannot access the windows registry.
3. Implement the security policies to monitor the employee activities in the network. **40**

No. of Printed Pages : 3

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

June, 2017

**MSEI-021 : INTRODUCTION TO INFORMATION
SECURITY**

Time : 2 hours

Maximum Marks : 50

- 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.*
- (iv) *Section D - Answer any two questions out of three.*

SECTION - A

Objective type questions.

(Attempt all the questions) **1x10=10**

1. SSL stand for : **1**
- (a) Secure Safe Learning
 - (b) Secure Socket Layer
 - (c) Secure Surfing Layer
 - (d) Socket Secure Layer
2. Multipartite viruses attack on : **1**
- (a) Files
 - (b) Boot sector
 - (c) Memory
 - (d) All of the mentioned

3. Full duplex system permits information to flow simultaneously in both direction on the transmission path. (True/False). 1
4. In computer security, _____ means that computer system assets can be modified only by authorized parties. 1
 - (a) Confidentiality
 - (b) Integrity
 - (c) Availability
 - (d) Authenticity
5. This topology requires multi point connection : 1
 - (a) Star
 - (b) Mesh
 - (c) Ring
 - (d) Bus
6. DOS attacks are limited to wired networks and cannot be used against wireless networks. 1
 - (a) True
 - (b) False
7. Hardware firewalls usually are located inside the network security perimeter as the last line of defence. 1
 - (a) True
 - (b) False
8. One of the most important steps in hardening an operating system to resist attacks is to apply updates. 1
 - (a) True
 - (b) False
9. Translator for low level programming language were termed as _____. 1
10. Shell is the exclusive feature of _____ OS. 1

SECTION - B

(Very short answer type questions. Attempt all the questions) 5x2=10

11. What do you understand by Port Redirection ?
12. Write short note on internet.
13. What is the difference between Grey Hat Hackers and Black Hat Hackers ?
14. Write any two precautions for operating system security.
15. What is anti-virus software ? Why it is used ?

SECTION - C

(Attempt any 2 out of 3 short answer type questions) 2x5=10

16. Explain any three types of network attacks in detail.
17. Explain Half Duplex and Full Duplex mode of Data Transmission.
18. What is an operating system ? Explain its functions and any two types of operating system.

SECTION - D

(Attempt any 2 out of 3 long questions) 2x10=20

19. Explain the layers of OSI model.
20. What is SNMP management Frame work ? Also define its basic components.
21. Write short note on the following :
 - (a) Hacking
 - (b) Firewall
 - (c) File servers
 - (d) Malware
 - (e) State sponsored hacking

No. of Printed Pages : 1

MSEI-021(P)

00203

**POST GRADUATE DIPLOMA IN
INFORMATION SECURITY (PGDIS)**

Term-End Practical Examination

June, 2017

**MSEI-021(P) : INTRODUCTION TO
INFORMATION SECURITY**

Time : 3 hours

Maximum Marks : 100

-
- Note :** (i) *Attempt any two out of three questions. Each question carries 40 marks.*
- (ii) *Viva - voce carries 20 marks.*
-

1. Implement 10 security policies to relate to OS, network, web browser, Application, hardware, user privileges etc. **40**
 2. Implement any Firewall and try to block the ping request, and also implement users and group policies so that user can not install, add or remove the programmes. **40**
 3. Implement the MS Excel sheet with password security and try to crack the passkey by using any tools available on internet. **40**
-

No. of Printed Pages : 3

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

December, 2017

**MSEI-021 : INTRODUCTION TO INFORMATION
SECURITY**

Time : 2 hours

Maximum Marks : 50

- 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 question.**
 - (iv) **Section D - Answer any two questions out of three long answer type question.**

SECTION - A

Objective type questions :

(Attempt all the questions)

1. _____ topology provides redundant communication paths between some or all devices. **1**
2. _____ is a special software designed to check computer systems and disks for the presence of various computer viruses. **1**

3. Wireless communications or WiFi can be encrypted using protocols/standards such as _____ and the older protocols/standards known as _____. 1
4. EISA stands for _____. 1
5. MIME stands for _____. 1
6. _____ refers to sending a large amount of e-mails to the victim's e-mail account or mail servers. 1
7. Write ping of death command. 1
8. What is size of IPv6 ? 1
9. SNMP stands for _____. 1
10. What is the maximum packet size allowed to drop ping request to the target system ? 1

SECTION - B

Very short type questions :
(Attempt all the questions)

11. Explain DMZ with examples. 2
12. Define cache memory. 2
13. What is virtual storage ? 2
14. What is the significance of Privacy in E-commerce ? 2
15. Define cyber squatting. 2

SECTION - C

Short answer type questions :

(Attempt 2 out of 3 short answer type questions)

16. What are the four steps of life cycle of an information security awareness programme ? 5
17. What is Web Tracking and how it is different from Phishing ? 5
18. What are Reconnaissance Attacks ? Explain any four. 5

SECTION - D

Long answer type questions :

(Attempt 2 out of 3 questions)

19. What are the characteristics of Viruses ? How Virus are different from Trojan Horse ? 10
20. What is the difference between firewall intrusion detection system and intrusion prevention system ? 10
21. Write short notes on : 2x5=10
 - (a) SSL
 - (b) DHCP
 - (c) DNS
 - (d) Kerberos
 - (e) ADC/SAMBA

No. of Printed Pages : 2

MSEI-021 (P)

**POST GRADUATE DIPLOMA IN
INFORMATION SECURITY (PGDIS)**

Term-End Practical Examination

December, 2017

**MSEI-021 (P) : INTRODUCTION TO
INFORMATION SECURITY**

Time : 3 hours

Maximum Marks : 100

Note : (i) *Attempt 2 out of 3 questions. Each carries 40 marks.*

(ii) *Viva-voce carries 20 marks.*

-
1. Apply Information Gathering Tools to recover the details for any Domain Name which includes the following features : 40
Domain Name, IP address (IPV4/IPV6), Geographical Location, Contact details of the site registrar, Site Administrator, Hosting server details, Domain Expiry details, Domain A record, MX records, Port scan details & Hosted IP Reputation etc. Finally generate the report.
 2. Identify Network details as given below : 40
 - (a) List the real time IP address and their MAC address connected to the host.
 - (b) List all IP address alive in the Network and displays the services/ports running on each IP.
 - (c) Trace number of hops appears in between source and destination.
 - (d) List the Ports running on the system along with their services running on the system.

3. Apply OS Hardening techniques on the system as mentioned below : 40
- (a) How to shutdown the system by using Command line ?
 - (b) How to change the Registry Entries by using Command Prompt ?
 - (c) How to clean & customize the running applications from startup list ?
 - (d) How to block user to install the software in OS ?
-



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No. of Printed Pages : 3

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

June, 2018

**MSEI-021 : INTRODUCTION TO INFORMATION
SECURITY**

Time : 2 hours

Maximum Marks : 50

- 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.*

SECTION - A

**Objective type questions.
(Attempt all the questions.)**

1. LDAP stands for _____. 1
2. NNTP stands for _____. 1
3. Which tools used to block port number. 1
 - (a) Antivirus
 - (b) Firewall
 - (c) Antiworms
 - (d) IDS

4. File Virus infects executables in OS File system. 1
(True/False)
5. To implement SSL Certificate on Web server, 1
which following options are applicable.
 - (a) We can implement SSL certificate through self signed Certificates.
 - (b) We can implement SSL certificate duly signed by Certifying Authority.
 - (c) Both are possible.
 - (d) None of the above.
6. By using Encryption techniques the plain text 1
converts to _____.
7. _____ use to send and receive files from one 1
computer to another.
8. _____ connectors are most commonly seen 1
with Ethernet Cables and Networks.
9. _____ cable is made of glass or plastic and 1
transmits signals in the form of light.
10. CMIP stands for _____. 1

SECTION - B

Very short answer type questions.

(Attempt **all** the questions.)

11. Differentiate between Real time Operating System 2
and Embedded Operating System.
12. What is Operating System Hardening ? 2
13. Explain error Handling with example. 2
14. Explain SYN Flood Attack. 2
15. What is Polymorphic Virus ? Explain. 2

SECTION - C

Short answer type questions.

(Attempt 2 out of 3 short answer type questions.)

16. Explain OSI Model with a diagram. 5
17. Explain the difference between Phreaking and Privacy. 5
18. Difference between Mesh Topologies and Star Topologies. 5

SECTION - D

Long answer type questions.

(Attempt 2 out of 3 questions.)

19. Explain four primary classes of threats to network security. Difference in DOS and DDOS attacks. 10
20. What are the benefits of Internet ? Explain any five. Explain three Data Transmission Modes. 10
21. Write short notes on : 2x5=10
 - (a) Multitasking
 - (b) Main frames
 - (c) SNMP
 - (d) Reconnaissance
 - (e) Smurf Attack

No. of Printed Pages : 2

MSEI-021 (P)

00158

**POST GRADUATE DIPLOMA IN
INFORMATION SECURITY (PGDIS)**

Term-End Practical Examination

June, 2018

**MSEI-021 (P) : INTRODUCTION TO
INFORMATION SECURITY**

Time : 3 hours

Maximum Marks : 100

Note : (i) *Attempt 2 out of 3 questions. Each carries 40 marks.*

(ii) *Viva-voce carries 20 marks.*

1. Apply OS Hardening Techniques on the system as mentioned below : **40**
 - (a) Create the user with limited Permissions.
 - (b) How to change the user password from the Command Line ?
 - (c) Hide files and folders using Command Prompt.
 - (d) List all the running tasks using Command Line.

2. Identify Network details as given below using command line only. **40**
 - (a) Save your complete IP details in the file.
 - (b) Find files opened by Network users.
 - (c) Monitor port activity.
 - (d) Find DNS/NS details of any domain.

3. Apply information gathering/social engineering Tools to recover details for any domain Name which includes the following features :
Domain Name IP address (IPV4/IPV6)
Geographical location, Contact details of the Site Registrar, Site Administrator, Hosting server details, Domain Expiry details etc. Moreover find Social Network existence of the contact person like facebook ID/Twitter or LinkedIn ID's etc. associated to the selected domain. Finally generate the report. **40**



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No. of Printed Pages : 3

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

December, 2018

**MSEI-021 : INTRODUCTION TO INFORMATION
SECURITY**

Time : 2 hours

Maximum Marks : 50

- Note :**
- (i) *Section 'A' - Answer all objective type questions.*
 - (ii) *Section 'B' - Answer all 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.*

SECTION - A

Objective type questions.
(Attempt all the questions)

1. The 4 byte IP address consists of : 1
 - (a) network address
 - (b) host address
 - (c) both (a) and (b)
 - (d) none of the mentioned

2. The network layer protocol of internet is : 1
 - (a) ethernet
 - (b) internet protocol
 - (c) hypertext transfer protocol
 - (d) none of the mentioned

3. Multidestination routing : 1
(a) is same as broadcast routing
(b) contains the list of all destinations
(c) data is not sent by packets
(d) none of the mentioned
4. ICMP is primarily used for : 1
(a) error and diagnostic functions
(b) addressing
(c) forwarding
(d) none of the mentioned
5. If a security hyper visior or a security virtual machine is not available, it is recommended that traditional security defenses be deployed on each virtual machine. 1
(a) True (b) False
6. Like a virus, a worm needs the user to perform an action such as starting a program or opening an e-mail attachment to start the infection. 1
(a) True (b) False
7. In a general sense, security is defined as a state of freedom from danger or risk. 1
(a) True (b) False
8. Account expiration is the same as password expiration. 1
(a) True (b) False
9. Security weaknesses can always be entirely eliminated. 1
(a) True (b) False
10. Hashing provides only Integrity. 1
(a) True (b) False

SECTION - B

Very short answer type questions.

(Attempt all the questions)

- | | |
|---|---|
| 11. Explain SAMBA. | 2 |
| 12. What is a virus and what are its symptoms ? | 2 |
| 13. Write a short note on Cyber Pornography and E-mail Bombing. | 2 |
| 14. Explain Brute - force computation. | 2 |
| 15. Differentiate between Analog data transmission and Digital data transmission. | 2 |

SECTION - C

Short answer type questions.

(Attempt 2 out of 3 short type questions)

- | | |
|--|---|
| 16. What is Network Security and why it is important ? | 5 |
| 17. What are the reasons for hacking ? | 5 |
| 18. What is CSMA/CD ? Explain. | 5 |

SECTION - D

Long answer type questions.

(Attempt 2 out of 3 questions)

- | | |
|---|----|
| 19. Explain the layers of OSI reference model. | 10 |
| 20. What is SNMP management frame work ? Also define its basic components. | 10 |
| 21. What is Malware ? What kind of precautions can we use to overcome the virus problem ? | 10 |

No. of Printed Page : 1

MSEI-021(P)

**POST GRADUATE DIPLOMA IN
INFORMATION SECURITY (PGDIS)**

Term-End Practical Examination

December, 2018

**MSEI-021 (P) : INTRODUCTION TO
INFORMATION SECURITY**

Time : 3 hours

Maximum Marks : 100

Note : (i) *Attempt 2 out of 3 questions. Each carries 40 marks.*

(ii) *Viva-voce carries 20 marks.*

-
1. Configure windows client to be used as Samba Server. 40
 2. Implement the Sniffers to capture the packets and filter those packets for source IP address in descending order. 40
 3. By using the concepts of operating system security apply the filters as follows : 40
 - (a) Block the USB.
 - (b) User not able to change the Network settings.
 - (c) User cannot access the Windows registry.
 - (d) User cannot access the Folder/Drive.
-

01654

• No. of Printed Page : 4

MSEI-021

**P.G DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination, 2019

**MSEI-021 : INTRODUCTION TO INFORMATION
SECURITY**

Time : 2 Hours]

[Maximum Marks : 50

Note : Section 'A'- Answer all objective type questions.

Section 'B'- Answer all very short answer type questions.

Section 'C'- Answer any two questions out of 3 short answer type questions. Section 'D'- Answer any two questions out of 3 long answer type questions.

SECTION-A

Objective Type Questions

(Attempt All the Questions)

1. Which of the following malicious program do not replicate automatically ? [1]

- | | |
|------------------|------------|
| (a) Trojan Horse | (b) Virus |
| (c) Worm | (d) Zombie |

2. The pattern that can be used to identify a virus is known as : [1]

- (a) Stealth
- (b) Virus signature
- (c) Armoured
- (d) Multipartite

3. CMIP stands for _____. [1]

4. Data Encryption are done on _____ of OSI model. [1]

5. NIC stand for _____. [1]

6. An assembler is _____ dependent. [1]

7. IDPS stands for _____. [1]

8. A script kiddie is an unskilled user who downloads automated attack software to attack computers. [1]

- (a) True
- (b) False

9. The term "exploit" means to take advantage of a vulnerability. [1]

- (a) True
- (b) False

10. Because NAS operates at the file system level, NAS security cannot be implemented through the standard operating system security features. [1]

(a) True (b) False

SECTION-B

Very Short Answer Type Questions

(Attempt All the Questions)

11. Explain Phishing Attack. [2]
12. Differentiate between Interpreter and compiler. [2]
13. What is the difference between Grey Hat Hackers and Black Hat Hackers ? [2]
14. What is virus and how it replicate ? [2]
15. Differentiate between Internet and Extranet. [2]

SECTION-C

Short Answer Type Questions

(Attempt 2 Out of 3 Short Type Questions)

16. What are the two methods for computing passwords ?[5]
17. Explain cryptography and overview of SSL handshake.[5]
18. What are the key steps that every company implementing an information security management system should consider that ? [5]

SECTION-D

Long Answer Type Questions

(Attempt 2 Out of 3 Questions)

19. Differentiate between threats, attacks and vulnerabilities with the help of examples of each. [10]
20. What is cryptanalysis ? Explain in brief "differential" and "linear cryptanalysis". [10]
21. Information security is multi-divisional and multi-disciplinary in nature. Do you agree ? Explain in details. [10]

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No. of Printed Pages : 4

MSEI-021

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination, 2019

**MSEI-021 : INTRODUCTION TO
INFORMATION SECURITY**

Time : 2 Hours]

[Maximum Marks : 50

Note : Answer the questions as per instructions given in each section.

SECTION-A (Objective Type Questions)

Note : Attempt all questions :

1. The phrase _____ describes, Viruses, Worms, Trojan horse attack applets, and attack scripts. [1]
2. The _____ of a threat measures its potential impact on a system. [1]
3. A hacker contacts you by phone or email and attempts to acquire your password is called _____. [1]
4. A _____ is a small program embedded inside of a GIF image. [1]



5. A _____ is anything that can cause harm. [1]
6. Message authentication is a service beyond _____. [1]
- (a) Message Confidentiality
 - (b) Message Integrity
 - (c) Message splashing
 - (d) Message Sending
7. A hash function guarantees integrity of a message. It guarantees that message has not be _____. [1]
- (a) Replaced
 - (b) Over view
 - (c) Changed
 - (d) Violated
8. All of the following are examples of real security and privacy threats except _____. [1]
- (a) Hackers
 - (b) Virus
 - (c) Spam
 - (d) Worm

9. Trojan horses are very similar to virus in the matter that they are computer programs that replicates copies of themselves. [1]
- (a) True
- (b) False
10. A hacker that changes or forges information in an electronic resources is engaging in _____. [1]
- (a) denial of service
- (b) sniffing
- (c) terrorism
- (d) data diddling

SECTION-B (Very Short Answer Type Questions)

Note : Attempt all the questions :

11. Explain 'Security Model'. [2]
12. What are FTP servers ? Explain. [2]
13. Explain Brute-Force Computation. [2]
14. What do you understand by Port Redirection ? [2]
15. Differentiate between DOS and DDOS Attacks ? [2]
- MSEI-021/2000 (3) [P.T.O.]

SECTION-C (Short Answer Type Questions)

Note : Attempt **any two** questions :

16. What is CSMA-CD ? Explain. [5]
17. Explain cryptography and overview of SSL Handshake. [5]
18. Explain any three types of network attacks in detail. [5]

SECTION-D (Long Answer Type Questions)

Note : Attempt **any two** questions :

19. Why is a methodology important in the implementation of information security ? How does a methodology improve the process ? Explain. [10]
20. Discuss the ethical concepts in information security and the prevention to illegal and unethical behavior. [10]
21. Explain the following : [4x2.5=10]
 - (a) NNTP Server
 - (b) TCP/IP
 - (c) Cyber Pornography
 - (d) SMI and MBI

No. of Printed Pages : 4

MSEI-021

P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination

MSEI-021 : INTRODUCTION TO INFORMATION 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 any two question out of three short answer type questions.

Section D answer any two questions out of three long answer type questions.

Section A

Objective type questions

(Attempt all the questions)

- | | | |
|----|--------------------------|---|
| 1. | ICMP stands for | 1 |
| 2. | IPS stands for | 1 |
| 3. | N I M E stands for | 1 |



4. translate the program line by line. 1
5. Hub concept used in topology. 1
6. memory uses a hard disk to store parts of programs that are currently running and cannot fit in Ram. 1
7. FTP stands for 1
8. Black hat hackers are the hackers known as Cyber Criminals. (a) True (b) False 1
9. helps to block undesired internet traffic from accessing your computer. 1
10. What is the size of IPv6? 1

Section B

Very short answer type questions

(Attempt all the questions)

11. What is a virus and what are its symptoms? 2
12. What is the difference between a threat agent and a threat? 2
13. Explain SAMBA 2

14. Differentiate between DOS and DDOS attacks. 2
15. Differentiate between interpreter and compiler. 2

Section C

Short answer type questions

(Attempt 2 out of 3 short answer type questions)

16. What is an operating system? Explain its functions and any two types of OS. 5
17. Explain ISO - OSI model with diagram and explain layers in brief. 5
18. What are the two methods for computing password? 5

Section D

Long answer type questions

(Attempt 2 out of 3 questions)

19. Explain the basic security threats and their corrective measures in detail. 10

20. What is Malware? What kind of precautions can be used to overcome the virus problem? 10
21. Write briefly about the signature based intrusion detection system. 10

—x—



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**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

February, 2021

**MSEI-021 : INTRODUCTION TO INFORMATION
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 any **two** questions out of three short answer type questions.*

*Section D – Answer any **two** questions out of three long answer type questions.*

SECTION A

*Objective type questions. Attempt **all** questions.*

1. NAT stands for _____ . 1
2. SNMP stands for _____ . 1
3. _____ allows file and print sharing between computers running Windows and Linux. 1

4. _____ is the Linux file system used to format the hard disk nowadays. 1
5. HTTPS Protocol works on the _____ layer of OSI model. 1
6. MAC address is available on _____ layer of OSI. 1
7. UTP stands for _____. 1
8. Which protocol is used behind ping command ? 1
9. CSMA-CD stands for _____. 1
10. _____ involves following a person's movements across the Internet by posting messages on the bulletin boards frequented by the victim. 1

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SECTION B

*Very short answer type questions. Attempt **all** questions.*

11. What is Data Diddling ? Explain. 2
12. Write a short note on Fiber Optics. 2
13. Explain the concept of Circuit Switching. 2
14. What do you mean by Reconnaissance ? Explain. 2
15. What are the characteristics of computers ?
Explain. 2

SECTION C

*Short answer type questions. Attempt **two** out of three questions.*

16. Explain Firewall. What are the types of
Firewalls ? 5
17. Explain the terms Data Repositories and Email
Services. 5
18. Differentiate between Star topology and Tree
topology with diagrams. 5

SECTION D

*Long answer type questions. Attempt **two** out of three questions.*

19. What is the difference between Virtual Storage and Cache Memory ? Explain Data Integrity and its types. 10

20. What is the SNMP Management Framework ? Explain all four. 10

21. What are the types of operating systems ? Explain any four. 10

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