

University of Mumbai

Examination 2020

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: Computer Engineering

Curriculum Scheme: Rev2016

Examination: BE Semester VII

Course Code: CSLDLO7031 and Course Name: Advanced System Security and Digital Forensics

Time: 2 hour

Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	The term Cyber attack means
Option A:	Attempt to steal, alter, or destroy a system
Option B:	Attempt to steal, alter, or destroy a system using only internet
Option C:	Attempt to steal, alter, or destroy a system using any network
Option D:	Attempt to steal, alter, or destroy a terminal
2.	Denial of performing any actions in order to escape responsibility is known as
Option A:	Denial of Service
Option B:	Tampering
Option C:	Repudiation
Option D:	Virus Attack
3.	Which of the following are examples of Vulnerabilities: 1. Denial of Service, 2. Programs with known flaws, 3. Weak firewall configurations
Option A:	1 and 2
Option B:	2 and 3
Option C:	1 and 3
Option D:	1, 2 and 3
4.	Cheat Codes are an example of:
Option A:	Buffer Overflow
Option B:	Undocumented Access Point
Option C:	Unsafe Utility Program
Option D:	Incomplete Mediation
5.	Worms are:
Option A:	Non-Malicious Codes
Option B:	Malicious Codes
Option C:	Targeted Malicious Code
Option D:	Selectively malicious
6.	Covert Channels are:
Option A:	Non-Malicious Codes

Option B:	Malicious Codes
Option C:	Targeted Malicious Code
Option D:	Selectively malicious
7.	If the data sent by the sender is not the same as the data received by the receiver then it is a loss of?
Option A:	Integrity
Option B:	Confidentiality
Option C:	Authentication
Option D:	Verification
8.	_____ Protocol under SSL indicated that the upcoming data is protected.
Option A:	Record Protocol
Option B:	Change Cipher Spec
Option C:	Alert
Option D:	Handshake
9.	HTTPS uses _____ port number.
Option A:	441
Option B:	442
Option C:	443
Option D:	444
10.	_____ is preferably used for connecting two computer terminals.
Option A:	SSL
Option B:	SSH
Option C:	VPN
Option D:	XSS
11.	IEEE 802.11i has come out with what protocol
Option A:	HTTP
Option B:	WEP
Option C:	WPA
Option D:	WPA2
12.	In _____ the security key had to be hardcoded into the devices
Option A:	HTTP
Option B:	WEP
Option C:	WPA
Option D:	WPA2
13.	Which is generally considered as crime against Society
Option A:	Cyberterrorism
Option B:	Cyberdefamation
Option C:	Logic Bomb
Option D:	Fraud offenses
14.	The Intellectual property rights of Nagpur Orange can be protected under _____.
Option A:	Patents

Option B:	Designs
Option C:	Copyrights
Option D:	Geographical Indications
15.	The Intellectual property rights of a poem can be protected under _____.
Option A:	Patents
Option B:	Designs
Option C:	Copyrights
Option D:	Geographical Indications
16.	The Intellectual property rights of a company logo can be protected under _____.
Option A:	Patents
Option B:	Designs
Option C:	Trademarks
Option D:	Copyrights
17.	_____ is kind of an intellectual property which is not published anywhere.
Option A:	Patents
Option B:	Trademarks
Option C:	Copyrights
Option D:	Trade Secrets
18.	The three A's in digital Forensics are i. Acquire ii. Authenticate iii. Apply iv. Analyse v. Appraise
Option A:	i, ii, and iii
Option B:	i, ii, and iv
Option C:	i, iii and v
Option D:	ii, iii and iv
19.	Forensic duplicate is stored is stored in what format?
Option A:	Original
Option B:	Raw
Option C:	JPEG
Option D:	HTML
20.	A 10GB of hard drive would result in _____ forensic duplicate.
Option A:	10GB
Option B:	10MB
Option C:	20GB
Option D:	20MB

Q2 20 Marks Total	Solve any four Questions out of six	5 marks each
A	Differentiate between Single Sign-On and Federated Identity Management	
B	What are the various ways in which an Operating System Security can be ensured?	
C	What is Session Hijacking? How can it be prevented?	
D	What is WEP? What were its drawbacks which led to the development of WPA?	
E	What is an Intellectual Property? What are its various types?	
F	What are application logs? How can we retrieve evidences from log files?	

Q3. 20 Marks Total	Solve any Two Questions out of Three	10 marks each
A	What is Discretionary and Mandatory Access Control. Explain and differentiate.	
B	Explain GSM Security in detail	
C	Explain and illustrate the Complete Digital Forensics Life Cycle.	