Seat No. Total No. of Pages : 4

T.Y. B.Tech. (Computer Science and Engineering) (CBCS) (Part-II) (Semester - VI) Examination, March - 2023 OEC-CYBER SECURITY

Sub. Code: 81551

Day and Date: Wednesday, 05 - 07 - 2023 Total Marks: 70

Time: 10.30 a.m. to 01.00 p.m.

Instructions: 1) All Questions are compulsory.

- 2) Assume suitable data wherever necessary.
- 3) Figures to the right indicate full marks.

Q1) Solve MCQs. [1 Each]

- i) What is Cyber Security?
 - (a) Cyber Security provides security against malware
 - (b) Cyber Security provides security against cyber-terrorists
 - (c) Cyber Security protects a system from cyber-attacks
 - (d) All of the mentioned
- ii) Which of the following is an objective of network security?
 - (a) Confidentiality
- (b) Integrity

(c) Availability

- (d) All of the above
- iii) Which of the following term refers to a group of hackers who are both white and black hat?
 - (a) Yellow Hat hackers
 - (b) Grey Hat hackers
 - (c) Red Hat Hackers
 - (d) White-Black Hat Hackers
- iv) What is the basic mechanism behind a DoS attack?
 - (a) Computers don't handle TCP packets well.
 - (b) Computers can only handle a finite load.
 - (c) Computers cannot handle large volumes of TCP traffic.
 - (d) Computers cannot handle large loads

v)	Wha	What is spyware?						
v)	(a)							
	(a) (b)							
	(c)							
	` ′	Only software that monitors what websites you visit						
vi)		computer is a malicious code which self-replicates by copying						
V1)	itself to other programs.							
		program	(b)	virus				
		application	(d)	worm				
vii)	Data is used to ensure confidentiality.							
VII)		Encryption		Locking				
•••	` ′	Deleting	(u)	Backup				
V111)		What is a buffer-overflow attack?						
	(a)	Overflowing a port with too many packets						
	(b)	Putting more email in an email system than it can hold						
	(c)	Overflowing the system						
	(d)	Putting more data in a buffer than it can hold						
ix)	SQI	SQL injection is based on what?						
	(a)	Having database admin privileges						
	(b)	Creating an SQL statement that is always true						
	(c)	Creating an SQL statement that will force access						
	(d)	Understanding web programming						
x)	Which of the following is an internet scam done by cyber-criminals where							
	the user is convinced digitally to provide confidential information?							
	(a)	MiTM attack	(b)	Phishing attack				
	(c)	Website attack	(d)	DoS attack				
xi)	When IT Act 2000 came into effect?							
	(a)	October 17, 2000	(b)	October 17, 2001				
	(c)	November 11, 2000	(d)	November 11, 2001				

					2= = :=					
	xii)									
		evidence takes from the time you find it until the case is closed or goes to court?								
		(a)	Rules of evidence	(b)	Law of probability					
		(c)	Chain of custody	(d)	Policy of separation					
	xiii)	Where does Linux store email server logs?								
	/	(a) /var/log/mail.* (b) /etc/log/mail.*								
		(c)	/mail/log/mail.*	` /	/server/log/mail.*					
	xiv)	which of the following is a vulnerability scanner specifically for Windo								
		systems?								
		(a)	Nmap	(b)	OphCrack					
		(c)	Nessus	(d)	MBSA					
Q 2)	Solv	Solve any 2 of the following. [7 Each]								
	a)	Explain the following terms related to Cyber Security.								
		i) Hacker Slang								
		ii)	Script Kiddies							
		iii)	Phreaking							
	b)	Explain concept of Cyber Stalking in detail with example.								
	c)	Explain Passive and Active Scanning Technique.								
Q 3)	Solv	e any	2 of the following.		[7 Each]					
	a) Explain OSI Reference model in detail.									
	b)	What is malware? Explain in detail.								
	c)	Explain DDos with example.								
.										
<i>Q4</i>)		lve any 2 of the following. [7 Each								
	a)	What is firewall? Explain types of firewalls.								
	b)	Explain the objectives of IT Act.								
	c)	What is digital signature? How it works?								

Q5) Solve any 2 of the following.

[7 Each]

- a) Explain procedure for getting back deleted files.
- b) Explain roles of international laws.
- c) Explain the following.
 - i) Snort
 - ii) Honeypot
 - iii) Intrusion Deterrence
 - iv) Intrusion Deflection

ಹಿಡಿಕು

