Total No. of Questions: 6

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Enrollment No.....



Faculty of Engineering End Sem Examination May-2023 CS3EY05 Ethical Hacking

Branch/Specialisation: CSE / All Programme: B.Tech.

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of

Q.1 (MCQ	Notations and symbols have their usual meaning.	
Q.1	i.	In reverse engineering process, what refers to the sophistication of the design information that can be extracted from the source code? (a) Interactivity (b) Completeness	1
		(c) Abstraction level (d) Direction level	
	ii.	is a weakness that can be exploited by attackers.	1
		(a) System with virus	
		(b) System without firewall	
		(c) System with vulnerabilities	
		(d) System with a strong password	
	iii.	attack is the exploitation of the web-session & its mechanism	1
		that is usually managed with a session token.	
		(a) Session hacking (b) Session hijacking	
		(c) Session cracking (d) Session compromising	
	iv.	Password cracking in system hacking is of types.	1
		(a) 2 (b) 3 (c) 4 (d) 5	
	v.	Point out the correct statement-	1
		(a) Parameterized data cannot be manipulated by a skilled and determined attacker	
		(b) Procedure that constructs SQL statements should be reviewed for injection vulnerabilities	
		(c) The primary form of SQL injection consists of indirect insertion of code	
		(d) None of these	

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	vi.	What is the purpose of a shad		1
		(a) To flag attacks against kn		
		· / I	tives in a signature-based IDS	
		(c) To randomly check sus detection system	picious traffic identified by an anomaly	
		(d) To enhance the accuracy	of a traditional honeypot	
	vii.	The two commonly used pen		1
		(a) Standard penetration test		
		(c) Both (a) & (b)	(d) None of these	
	viii.			1
		·		
		(a) Vulnerabilities	(b) NVD	
		(c) Patch	(d) CVE Identifiers	_
	ix.	is written a cybercrime?	et, stealing any digital asset or information	1
		(a) 65 (b) 65-D	(c) 67 (d) 70	
	х.	Who is the father of compute	r security?	1
		(a) August Kerckhoffs	(b) Bob Thomas	
		(c) Robert	(d) Charles	
Q.2	i.	Explain the phases of ethical	hacking.	2
	ii.	Discuss ethical hacking. Why	is it necessary?	3
	iii.	Write short note on:		5
		(a) White hat hacker	(b) Black hat hacker	
OR	iv.	•	mon cyber-attack? List out any three of	5
		them.		
Q.3	i.	Discuss ethical hacking of we	eb servers.	4
	ii.	Write short note on:		6
		(a) Password cracking	(b) Hash injection	
OR	iii.	Write short note on:		6
		(a) Replay and man-in-the-m	iddle attacks	
		(b) Rainbow table attack		
		(c) Distributed network attack	k	
Q. 4	i.	Define type of scanning – TC	CP SYN, ACK, XMAS & UDP.	3
	ii.	Describe hacking wireless ne	tworking and hacking mobile platforms.	7

OR	iii.	What do you understand by social engineering? List out some popular types of social engineering and explain them in brief.	7
Q.5	i. ii. iii.	What are mitigation of issues identified including tracking? Elaborate CVSS scoring for vulnerabilities. What is report writing? List out its phases.	2 3 5
OR	iv.	Write short note on requirements for low level reporting & high-level reporting of penetration testing.	5
Q.6		Attempt any two:	
	i.	Write a short note on India's information technology amendment act 2008.	5
	ii.	Differentiate between hacker vs cracker, liabilities.	5
	iii.	Explain how hacking is legally dealt with among BRICS countries.	5

Marking Scheme CS3EY05[T]- Ethical Hacking

Q.1	i)	In reverse engineering process, what refers to the sophistication of the design information that can be extracted from the source code?	1
		c) abstraction level	
	ii)	is a weakness that can be exploited by attackers. c) System with vulnerabilities	1
	iii)	attack is the exploitation of the web-session & its mechanism that is usually managed with a session token. b) Session Hijacking	1
	iv)	Password cracking in system hacking is of types. c) 4	1
	v)	Point out the correct statement. b) Procedure that constructs SQL statements should be reviewed for injection vulnerabilities	1
	vi)	What is the purpose of a shadow honeypot? c) To randomly check suspicious traffic identified by an	1
	vii)	anomaly detection system The two commonly used penetration tests are c) Both (a) & (b)	1
	viii)	On which is the National Vulnerability database primarily build upon	1
	ix)	 d) CVE Identifiers Under which section of IT act, stealing any digital asset or information is written a cyber crime? a) 65 	1
	x)	Who is the father of computer security? a) August Kerckhoffs	1
Q.2	i.	Explain the phases of ethical hacking. (two phases 2 marks)	3
	ii.	Discuss Ethical Hacking. (1.5 marks) Why is it necessary?(1.5 marks)	2
	iii.	Write short note on:	5

		a) White Hat Hacker (2.5 marks) b) Black Hat Hacker (2.5 marks)	
OR	iv.	What do you mean by common cyber-attack? (2 marks) List out	5
		any three of them. (3 marks)	
0.3	i.	Discuss ethical hacking of Web Servers. (4 marks)	1
Q.3	ii.	Write short note on:	6
	11.	a) Password Cracking (3 marks)	•
		b) Hash Injection (3 marks)	
OR	111.	Write short note on:	6
		a) replay and man-in-the-middle attacks (2 marks)b) rainbow table attack (2 marks)	
		c) distributed network attack (2 marks)	
		c) distributed network attack (2 marks)	
Q. 4	i.	Define type of scanning – TCP SYN, ACK, XMAS & UDP. (1 mark each)	3
	ii.	Describe Hacking Wireless Networking (4 marks) and Hacking	7
		mobile platforms (3 marks).	
OR	iii.	What do you understand by social engineering? (2 marks) List out some popular types of social engineering (2 marks) and explain them in brief. (3 marks)	7
Q.5	i.	What are mitigation of issues identified including tracking? (2 marks)	2
	ii.	Elaborate CVSS scoring for vulnerabilities. (3 marks)	3
	111.	What is report writing? (2.5 marks) List out its phases. (2.5	5
		marks)	
OR	iv.	Write short note on requirements for low level reporting (2.5	5
		marks) & high-level reporting of Penetration testing. (2.5 marks)	
Q.6		Attempt any two:	
	i.	Write a short note on India's Information Technology	5
		Amendment Act 2008. (4 marks)	_
	11.	Differentiate between hacker liabilities (3 marks) vs cracker liabilities. (3 marks)	5
OR	iii.	Explain how hacking is legally dealt with among BRICS	5
		countries. (Pointwise explaination 6 marks)	
