## APJ ABDULKALAM TECHNOLOGICAL UNIVE

**08 PALAKKAD CLUSTER** 

Q. P. Code: CS0822311C-I

(Pages: 2)

Name: ......

Reg. No: ......

THIRD SEMESTER M.TECH. DEGREE EXAMINATION DECEMBER 20

**Branch: Computer Science & Engineering** 

Specialization: Computer Science & Engineering

## 08CS7011(C) ETHICAL HACKING

Time: 3 hours

Max. Marks: 60

## Answer all six questions.

Modules 1 to 6: Part 'a' of each question is compulsory and answer either part 'b' or part 'c' of each question.

Q. No.	Module 1	Marks	
1.a	Write short note on Fraud Triangle.	3	
	Answer b or c		
b	What are the steps that are included in DID efficiency calculation? Explain them in detail?	6	
c	Illustrate the process involved in understanding the inherent risk profile of a	6	
	business with relevant tables and assumptions.		
Q. No.	Module 2	Marks	
2.a	Write short note on port scanning. Name one tool used to perform port scanning?	3	
)	Answer b or c		
b	With the help of a neat diagram, explain the difference between full open scan and half open Scan?	6	
c	Analyse TCP protocol header. Outline the roles of sequence number, window,	6	
*	checksum fields in TCP header and RST, PSH, SYN flags of TCP.	k.	
Q. No.	Module 3	Marks	
3.a	Write short note on the limitations of packet filters.	3	
Answer b or c			
b	Compare Packet filtering Vs Application-Level Firewall Technology.	6	

With the help of examples illustrate looping and parameter passing in windows batch file programming?

Q. No.	Module 4	Marks	
4.a	List and explain any 3 automated tools used by attacker to do various attacks on victim's system?	3	
Answer b or c			
· b	With an example explain how SQL injection attacks are done by attacker?	6	
c	An attacker writes a program that attempts to put data outside the bounds of a block of allocated memory. Explain this attack and the best practices to prevent it.?		
Q. No.	Module 5	Mark s	
5.a	Explain in detail about vulnerability assessment phases?	4	
Answer b or c			
b	Suggest and explain an existing framework to identify and mitigate the risks associated with ICF?	8	
c	Explain in detail the phases of penetration testing process?	8	
7			
Q. No.	Module 6	Marks	
6.a	What are computer forensics and journaling?	4	
3	Answer b or c		
b	With a neat diagram explain in detail about the risk assessment process?	8	
c *	Discuss the advantages and disadvantages of neural network-based misuse detection system.	8	