Name:				LIDEC			
Enrolment No:				UPES			
UNIVERSITY WITH							
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES							
Online End Semester Examination, December 2020							
Course: IT Systems and Network Security Semester: VI							
Program:		B. Tech CSE+ IT-Infra	Time	03 hrs.			
Course Code:		CSEG 3022	Max. Marks:	100			
SECTION A							
1.	Each Question	will carry 5 Marks					
1		mplete the statement / Select the correct an	swer(s)		1		
S. No.	Question		1	1.1	CO CO1		
1							
	Message Protocol (ICMP) messages to host systems. The application is reported on IEV as a network attack. This alarm is referred to as a						
	a) False positive						
	b) False negative						
	c) True positive						
	d) True nega						
2	Lack of access control policy is a CO2						
	a) Bug						
	b) Threat c) Vulnerabil	ity					
	d) Attack	Ity					
3	/	at to any information cannot be			CO3		
-	a) reduced	J					
	b) transferred						
	c) protected						
	d) ignored						
4	Which of the following combinations can support RAID 05? CO5 a) 2 gets with 2 dialas cash CO5						
	a) 2 sets with 3 disks eachb) 3 sets with 2 disks each						
	c) 2 sets with 4 disks each						
	d) 4 sets with						
5		following terminology is inappropriate fro	om network security pers	spective?	CO4		
	a)Threat			-			
	b)Malfunctio						
	c)Vulnerabili	ty					
6	d)Attack	following is not the type of access control	<u>0</u>		CO1		
6	a)DAC	following is not the type of access control	<i>!</i>				
	b)MAC						
	c)RBA						
	d)VVD						
SECTION B							
1. Each Question will carry 10 marks							
		rite short/brief notes	in import and have litert-	and that to accur?	CO2		
7		IT company's top risks, how severe is the measure the effectiveness of any IT compa			CO3, CO4		
8		owing terms briefly.	my m managing its top i	10K0 :	CO4 CO2,		
		istic analysis			CO2, CO5		

	B. Signature-based detection					
	C. Host-based detection					
	D. Pattern matching					
	E. Flood decode analysis					
9	What is a security policy? Discuss the Hierarchy of a Security Policy. List various characteristics of					
10	a Good Security Policy What is VPN Concentrators? Explain various functions of a VPN Concentrator.					
10	What is VPN Concentrators? Explain various functions of a VPN Concentrator.					
11	List various advantages of network traffic monitoring and analysis. Is it possible to have router-based monitoring technique? If yes, explain with an example. Also, discuss the role of network traffic signatures in network traffic monitoring.					
	OR					
	Discuss the important Data Backup Strategies/Plans. How will you select the Backup Media. List various data backup options and discuss RAID-level approach in detail.					
SECTION C						
	1. Each Question carries 20 Marks.					
2.	2. Instruction: Write long answer.					
12	A. List the roles and responsibilities of Incident Response Team Members. Who is First Responder? Discuss the role of First Responder in University IT Network and Services.B. How to calculate needed disk space in sectors for a striped volume. Explain with an example.	CO2, CO3				
	OR					
	A) Discuss with suitable diagram Incident handling and response process flow.					
	B) Discuss RAID storage architecture and enlist its advantages and disadvantages.					
1						