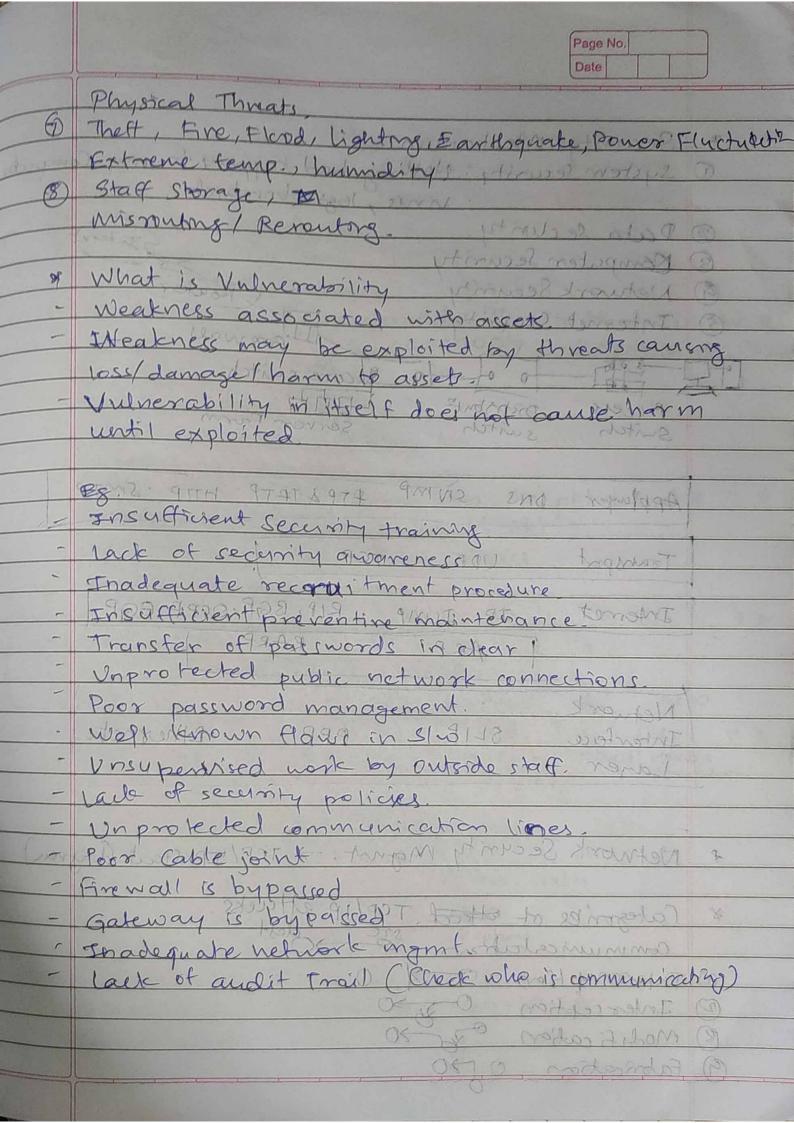
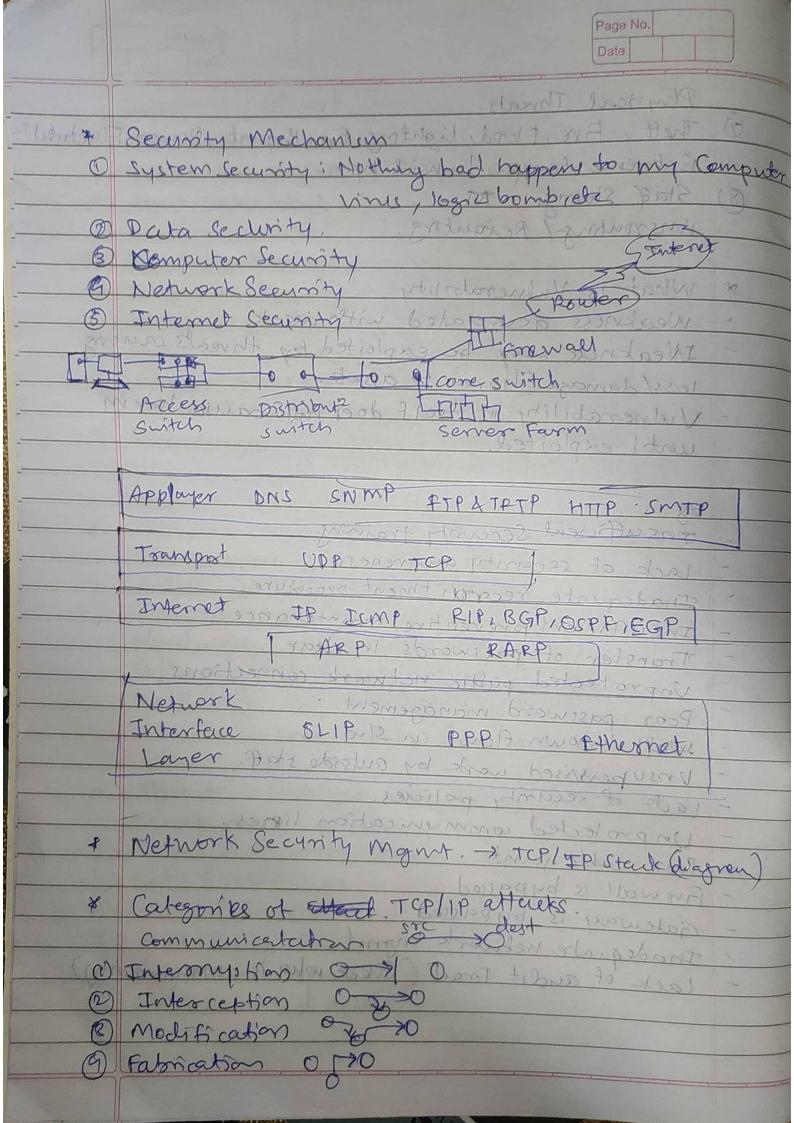
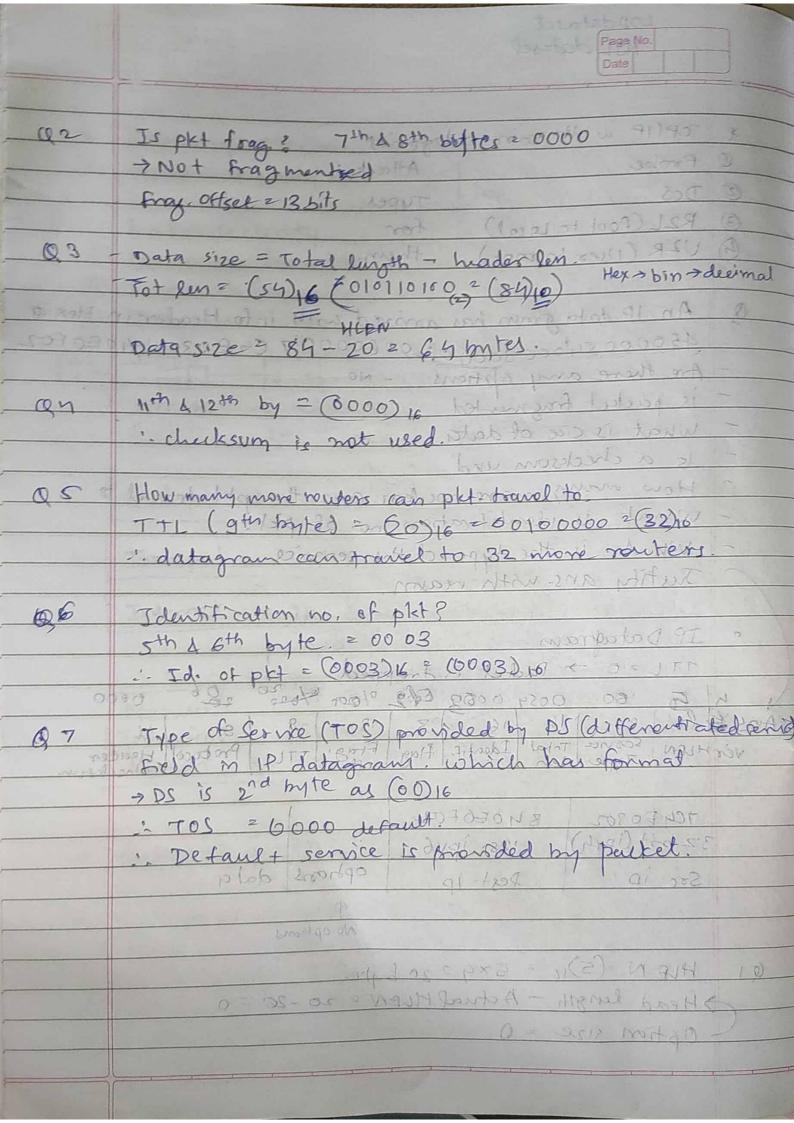
| | Page No. Date |
|------------|---|
| | Illustrate Network Security with Eg. 32 |
| * | Network Security |
| | protection of fit of Network agets & services |
| | from associated threats & Vulneralities |
| | TPC, GPC/ITAC+2000/2008 29PM |
| 4 | Security Requirements of themselved |
| 0 | Integrity: Assurance that into has not been |
| (7) | Availablishy: Not able to use sys when destred |
| (2) | Cartida table is Postable to use sys when desired |
| | Confidentiality: Protection from disclosure to |
| (| Non Repudation ? Refusal of sending the message, |
| 9 | Digital Signature 2/2001 street 1 source 1 |
| | |
| * | Network Asset. How of A Shotter agth dow I |
| | It is something to which an organization assigns |
| Mog | value I hence for which no requires protection. |
| | Student was a man a man of the |
| | Hardware: Server, dient: ITA, router, bridges |
| | Software: Network/Mient Os, App, took. parta/Info; org. data (PB, email), Network data, |
| | |
| | conf, Setting, User Access. |
| * | Threats: Carn put damage harrolloss to assets. |
| | Threats are; |
| 0 | Damage to Comm. lines. |
| 1 | Detenoration of storage media |
| | H/w Pailure |
| 6 | Matricous S/W |
| (5) | Misuse of resources |
| 6 | Unanthonized access |
| | |

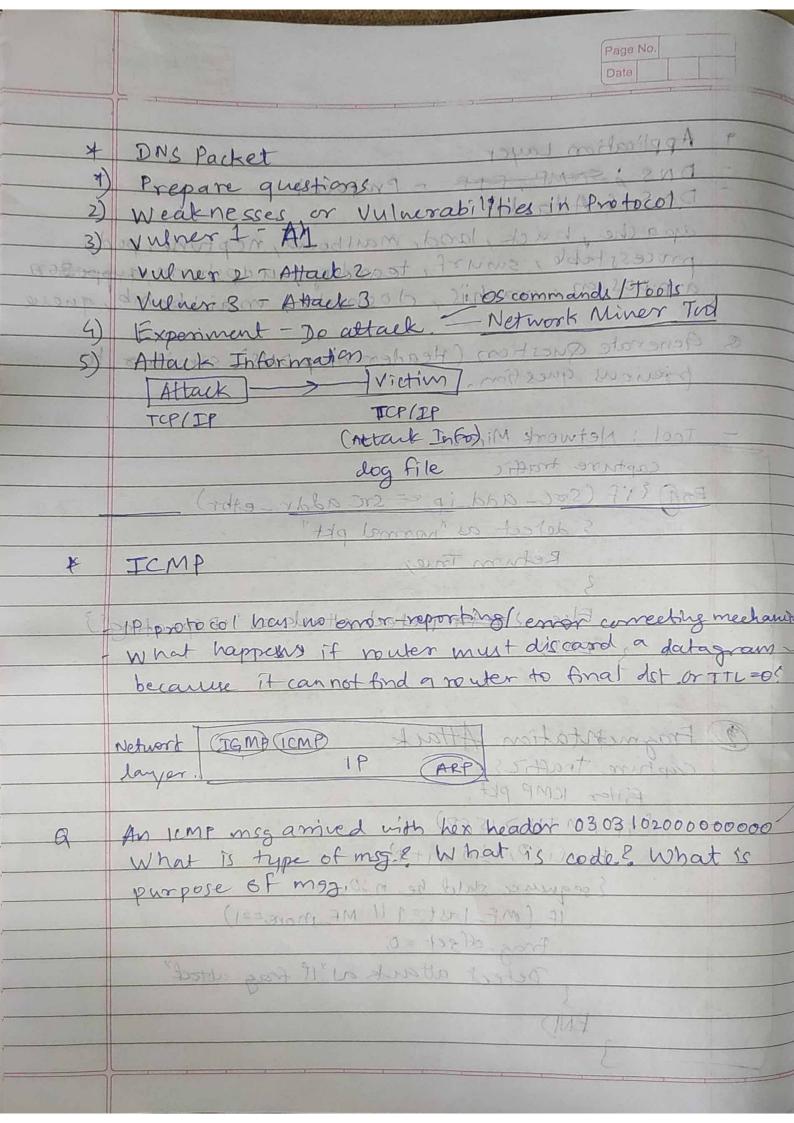


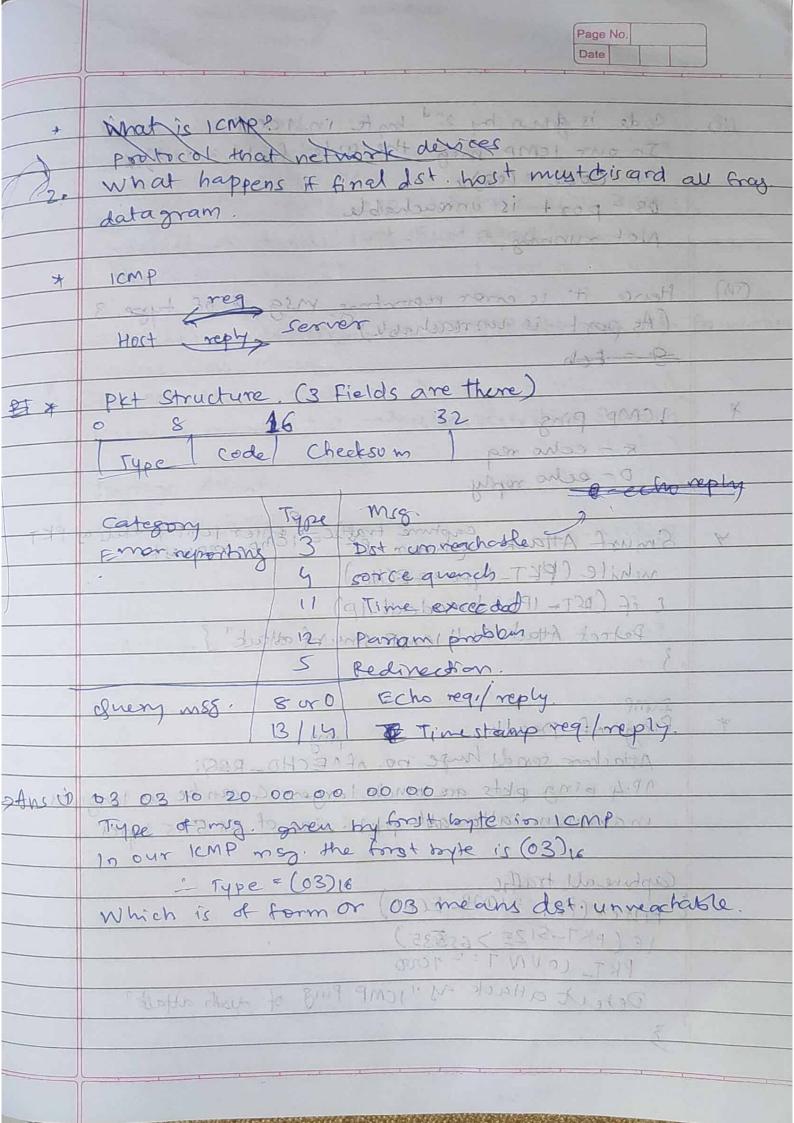


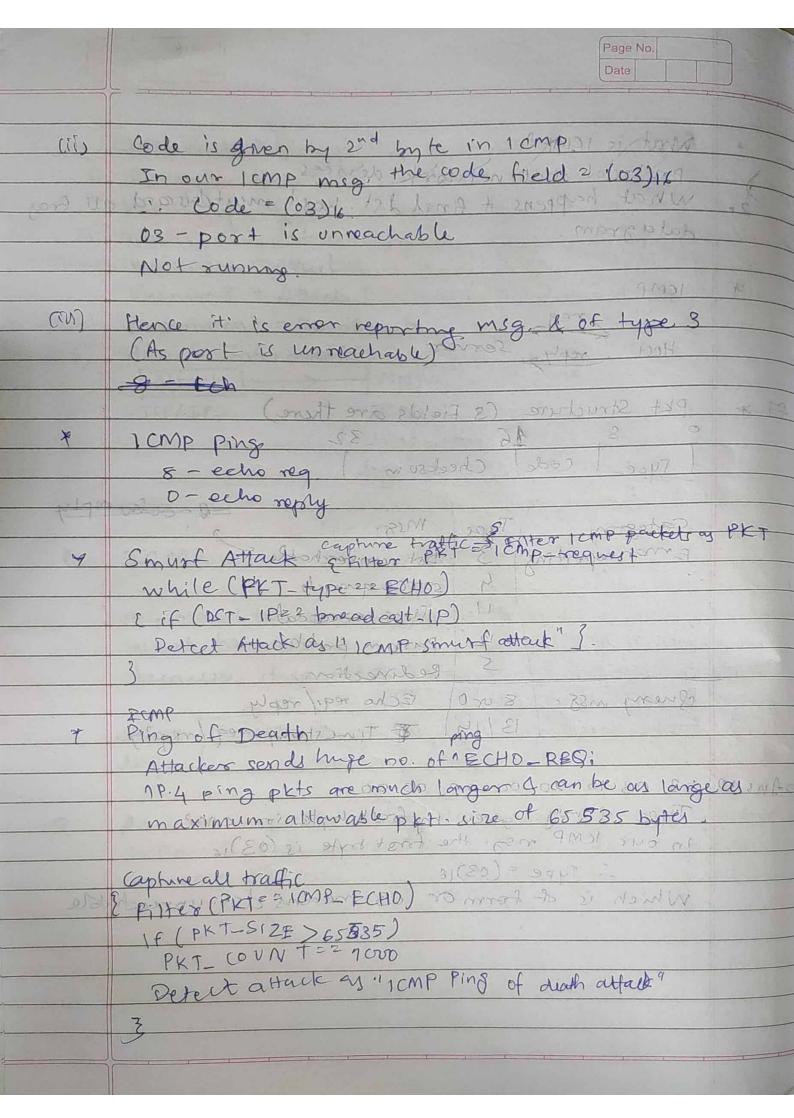
KDDdataset Page No. NSL datased Date TOPPIP with corrected of sies! Attack of property tons Probe Types Mass 1987 Dos R2L (Roof to Local) for UZR (User to root) them. SENIDENS (0182) = 0010110103 3 (02) 3 000 11 a An IP data gram has arrived with into Header in Her of - Are there any options - NO is parket fragmented (0000) = yet out & Asy What is see of data low ton a great the is a cheeksom und How many more routers can the ptt travel to what is identification no. of pkt of what is the type of the service Jutity ans- with reason I told to you not to that? 5th d eth butte = 00 03 · IP Datagram TTL = 0 > Padret & dropped = (dg to bI 5 .00 0054 0000 000 000 000 000 000 0000 ver ten service Total Identif. Flag Frag. TIL Protocol Header Ans & @ 189116 7C4 F0302 B40 E0 F074 00000 307 32 bit (iprh) 128. ipu6, 1 200002 + 110+90 Src ip Pest-ip options data No options Q1 HLEN = (5)16 = 5x9 = 20 byte Head Length - Actual HLEN = 20-20 = 0 - Option size = 0



| | Page No. Date | |
|-------|--|-------------|
| | | |
| * | Application Layer Johns | K |
| | COMP PER - PW to CO NO PROMIT | |
| - | DOS+3 Attack Idoran IV 10 2020 1 Anoin | (5 |
| | apache, back, land, mailbomb, neptine, po | d5 |
| | acacitable i smust, toarand, a application | DISCOUNT IN |
| | amposion, crashis, dosnuke, mai I bomb | , queue |
| | - Fremment - to abtack Network Miner Tim | |
| 0 | a La Callander of DNS) similar | to |
| - 6 | previous question, with the | |
| | TOTAL THE STATE OF | |
| | Tool: Network Miner Lundan | |
| | capture traffic siA pos | |
| | Enfort (Soc-add-ip == soc addr-ethr) | |
| | E detect as "normal pkt" | |
| | Refum True; AMOI | 4 |
| | 2 | |
| 1.000 | Else 2 meter perect attack as "1Pspooting" | 3 |
| um 3 | - What hoppons if mother must didn't a late | |
| U | because it cannot find a master to final det or | |
| | There is a second of the secon | |
| (3) | Fragmentation Attack 9MODAMOT Translate | |
| | capture traffics 99A 91 | |
| | Biter ICMP Plet. | |
| 00000 | onone from tunder sop who having on any of | 2 |
| 22 - | DALON 3 HOW C! 30 Mon Mit A) Sun to sout II INUM | |
| | Esequence stud be n'o'cem 70 morris | |
| | if (MF_last=111 MF_more=21) | |
| | frag-offset=0; | |
| | Detect attack as "It frag. attack" | |
| | | |
| | END | |
| | | |







TO COMPANY TO COMPANY Page No. 80 ping command. Date 30 11 2030 ICMP Flood Attack, Ist produnded methoristal Capture all pactots.

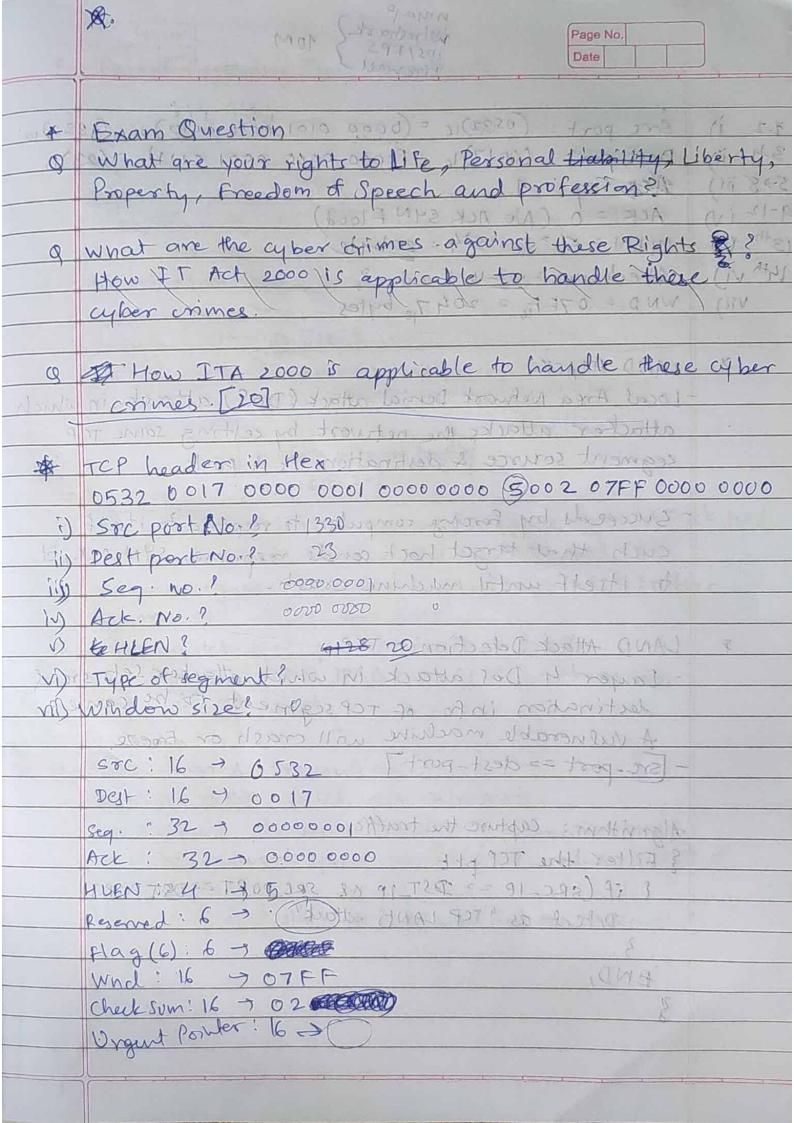
2 filter (ICMP_REPLY) 1+ (PACKET_COUNT > 10 8 8 PKT_SIZE > 65535) Detect attack as "ICMP Flood attack" un or allownotive to paper land y dual Attacker render large vol. lot 1cmPecho neg pck. to inchim Canses Dos attack. Tunnely Attacker, Italians to romo - ONE strang Unstall Firewall Set intruction detection system Article 357: (1) (2) * Tunge Attacks & still be modestoned 16 with ICMP Ping Sweep_ - Tradection of life meaning · Fight tollfe: Live hood, with April ty, Equality, without · Socio economic right i Right to Health & nedicol come o Stockel its Hice e No might to Die, Sentence of Madhi- Parvit of Par Car a Right by get Pellution Fire: ATV & Water · Right Agrand Proper Polly Kon to Pairacy Warmen's Richt to make Permilative Chair Towned abroad " Dight angular Meral Dely ation a few lead And & Frank on Agency al do artyack!!!

Article -> Constitution of India. Page No. Section -> Act THACT 2000 PULL * Article 19: Protection of freedom of speech 1. All citizens shall have the right.

(a) to freedom of speech & expression

(b) to assemble peaceably, without arms: (c) to form associations. (d) to move freely through the tembory of India (e) to reside & settle in any part of India. (\$) to practice any profession or to carry on any occupation Network Asiacle Classification 2. (a) To freedom of speech & expression. Integrity of India, security of state, friendly relations with foreign states, public orders, decency or morality or in relation to contempt of court, defamation or incitement to an offence Applied PMS 9 TTH 9TF 89T9 9MMS. 2M9 Homest

TOP IN POPULATION WITH CAMP REPROSER , EGP, OSPF, O Cr.PC Evidence Act * Classification of Cyber on the. a) Corper crime against individual (Emailspooting, Bithishing b) o 11 against property 15/w privacy, Copyright intringment, Tambonard organization Beneal bombing, Salami Attack Tringment organization for gent, Web 'prelengiosis bomb, Trojan Ho



Wheehark } 10M nmayo Page No. Date Src port 1 (0500)16 = (6000 01010011 0010)2 = (1330)10 1-2 1) Dest port 1 (0017) 16 = (0000,0000 0001 0111)2 = (23)16 3-4 11) The seg ! not have doing to and and yet and 5-18 111) 9-12 in ACK 20 (NO ACK SYN Flood) THIEN & 516 = 510 = 54 = 20 byte ad 10 ord and tour 2 13th V) Wheelesum 20216 = 210 18 21 000 101 7 2 0009 14th VI) WND 2 07FF4 2 2047, bytes 2300000 000000 (87V ATTHOUGHT A 2000 & applicable to SIDATIA CINAL CK ben Local Area Network Denial attack (DOS) attock in which attacker attacks the network by setting same TCP segment source & destination IPs & ports of 907 0532 BOTT DOCO 0001 0000 0000 5002 07FF COC - Succeeds by forcing computer to respond to itself such that target host sends response, SYN-ACK pt to itself until machine crash. LAND Attack Detection & TEPH ! MAJH & 1 - Layer 4 Dos attack in which attacker sets sec & destination in to of top segments to be same.
A vulnorable machine will crash or from - [src-port == dest-port] seed + disore 7100 6 21 1 400 Algorithm: capture the traffic 10000000 = 58: 100 & Filter the TCP pkt 00000000 ~ SE : YOA 1 if (SRC-1P == DST-1P (& SRC-PORT == DST-PORT) Detect as "TCP LAND attack" 'END; Dyarut Poshler (6 =>

