

CS 17L2 Network and Operating Systems Lab

Internal Examination - portions

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| 1 | Crimping EIA/TIA 568 A/B |
| 2 | Creating VLAN using terminal commands. CISCO / HP switch |
| 3 | CRC error checking. Client and Server at different machines. |
| 4 | Error Correction using Hamming code. Client and Server at different machines. |
| 5 | Huffman cod-Encoding and decoding |
| 6 | Run length encoding. |
| 7 | LZW – encoding and decoding. |
| 8 | RSA algorithm – implementation. |
| 9 | Generate md5 checksum for a given string. |
| 10 | Generate SHA1 message digest for a given string. |
| 11 | iptables – firewall, routing, opening and closing ports, block IP, block URL, block text, block MAC,allow from MAC,FTP,UDP,SSH,Telnet protocols, ACL etc. |
| 12 | ARP and RARP testing. |
| 13 | Packet capture and analysis using libpcap. |
| 14 | Create a simple web server . |
| 15 | Simulate Linux commands – ls,cp,mv and grep |
| 16 | Program using Linux system calls |
| 17 | Comparison of scheduling algorithms – FCFC,SJF,Priority,Round robin |
| 18 | IPC using –pipes,share memory and queues |
| 19 | Semaphore – producer-consumer problem. |
| 20 | CSMA/CD simulation. |