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| Q4 | <p>(a) An Ethernet MAC sublayer receives 42 bytes of data from the upper layer. How many bytes of padding must be added to the data? Support your answer with appropriate explanation.</p> <p>(b) Describe Virtual LANs with a suitable diagram.</p> | CO3 | (2+2=4) |
| Q5 | <p>(a) An organization is granted a block of addresses with the beginning address 14.24.74.0/24. The organization needs to have 3 subblocks of addresses to use in its three subnets: one subblock of 10 addresses, one subblock of 60 addresses, and one subblock of 120 addresses. Design the subblocks.</p> <p>(b) Describe the IP Header in detail.</p> | CO4 | 4+4=8 |