Computer Networks

Unit 4- Assignment

Solve the following W.r.t IPV4 and IPV6	
Sl. No	Question
1	Assume the host with Ethernet address 10-A9-32-41-A7-2D has joined the network. What would be its global unicast address if the global Unicast Prefix of the organization is 3A21:2314:4123 and the subnet identifier is 1000?
2	What will be the slash notation for the mask 255.255.248.0?
3	How many assignable IP addresses (Can be assigned to hosts) will be there in the network having this mask? (255.255.248.0)
4	In a block of addresses, we know the IP address of one host is 162.80.88.16/29. Answer the following questions based on this information. • What is the first address (network address) in this block? • What is the last address in this block? • What is the address space in this block? Is it possible to divide the block of addresses to serve 4 more organizations? Answer Yes or No.