



BHARATI VIDYAPEETH'S
INSTITUTE OF COMPUTER APPLICATIONS & MANAGEMENT (BVICAM)
(Affiliated to Guru Gobind Singh Indraprastha University, Approved by AICTE, New Delhi)
A-4, Paschim Vihar, Rohtak Road, New Delhi-110063, Visit us at: <http://www.bvicam.in/>

Course Code: MCA-103

Course Name: Computer Network

Assignment - 2

(Based on Unit - III)

		<i>BTL</i>	<i>CO</i>
Q1.	<p>For IPv4 ISPs, each domestic installation typically gets a /32 network. You have a complicated configuration requiring NAT and multiple IPv4 subnets.</p> <p>(i) Why would an IPv6 based provider allocate four /64 networks for your premises when each /64 represents 264 addresses?</p> <p>(ii) A colleague has IPv6 with another provider; they only allow one /64 for each domestic installation. In the past your colleague has used a NAT and many IPv4 private address blocks, but keenly adopted IPv6 permitting them to upgrade their home network. They are now using blocks of the allocated /64 and a router in their home to interconnect the subnets.</p> <p>Not everything is working as they hoped; for example, sometimes IoT devices can't connect to the Internet to update and your colleague can not connect to their front-door camera when at work.</p> <p>Explain what sort of problems your colleague may face along with methods by which they could verify the root cause.</p>	BT6	CO 3
Q2.	<p>A company is granted a site address 201.70.64.0. The company needs six subnets. Design the subnets (Subnet masks for each subnet, starting and ending address of each subnet).</p>	BT 6	CO 3