25-Summer-	CSE421-2	Quiz 8-A	Marks: 15	Time: 20 mins			
Name:			ID:	Serial:			
1. A multinational company has multiple branch offices. The head office and all of its							
branches have fully migrated to IPv6. However, the country it's situated in is still using							
IPv4. Which of the following technique should be used? Select one [3]							
	Dual Stack	Tunneling	<b>NAT</b>				
2. Consider the following communication events within an international organization's IT							
ecosystem: [2+2+2]							
a.	A customer accesses a global CDN (Content Delivery Network) to download a						
	file, and the request is routed to the nearest data center.						
	Multicast	Unicast	Anycast				
b.	A system administra	ator sends a patch	update to all serve	rs in a specific			
	department simultaneously.						
	Unicast	Anycast	Multicast				
C.	A group video confere	ence is initiated, wher	e the video feed is se	nt from one host			
	to multiple invited	participants, without	t broadcasting to e	veryone on the			
	network.						
	Anycast	Multicast	Unicast				
3. Which of the following address is used to create a loopback address? [2]							
	::/64 ::1/6		::1/128				
4. Make a meme related to CSE421 content. [4]							
Try to avoid depressive memes. Meme is for laughing, not crying.							
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25-Summer-CSE421-2		Quiz 8-B	Marks: 15	Time: 20 mins			
Name:			ID:	Serial:			
to IP need interr	v6, while the branch to communicate s	offices are still on I ecurely and effici	th offices. The head offices. The head offices. The head ently with the head ving techniques should	ems. These branches office using existing			
[3]	Dual Stack	Tunneling	■ NAT				
acros and r	<ol> <li>A global software company manages a cloud-based service with millions of users across different continents. They have implemented different methods of IP addressing and routing to optimize delivery based on specific requirements. [2+2+2]         <ul> <li>Software updates are pushed to all subscribed devices at once to ensure synchronized deployment.</li> </ul> </li> </ol>						
a.							
	Multicast	Unicast	Anycast				
b.	geographically closest server to reduce latency.						
	Unicast	Anycast	Multicast				
C.	A customer sends a support request, which must be routed to a specific serve						
	assigned to the customer.						
	Anycast	Multicast	Unicast				
3. Which of the following address is used to communicate with the device itself? [2]							
	::/64	::/128	128 🔚 ::1/128				
4. Make a meme related to CSE421 content. [4]							

Try to avoid depressive memes. Meme is for laughing, not crying.