1.	Which statements cause mobile controlled handoff? Selection	et all that apply.	1 point
	Quality of communication		
	✓ Mobility of the mobile host		
	Base station overload		
2.	Suppose that a mobile phone is moving in a region that co 1 through 7. The region uses cell group location storage to		1 point
	If the mobility pattern of the phone is Cell1, Cell5, Cell7, Cell	ell6, Cell1, how many handoffs are required?	
	↓ 4↓ 5◯ 1♠ 0		
3.	Suppose that one cell tower is placed on a 10-mile long ro range and TTL of the cell tower are 4 miles and 5 minutes, cars per mile per minute.		1 point
	What should the capacity of the cell tower be so that it can handle the traffic? <i>Note: Round the answer to the nearest integer.</i>		
	O 375		
	O 225		
	240		
	350		
4.	Time of Day	Cars Per Min	1 point
	Midnight	0.5	
	1 am	0.4	

Time of Day	Cars Per Min
Midnight	0.5
1 am	0.4
2 am	0.3
3 am	0.2
4 am	0.1
5 am	0.6
6 am	1.5
7 am	2
8 am	7
9 am	15
10 am	20
11 am	22
Noon	25
1 pm	24
2 pm	25
3 pm	24
4 pm	35
5 pm	35
6 pm	37
7 pm	30
8 pm	20
9 pm	15
10 pm	8
11 pm	4

Table: Traffic crossing a 1-mile stretch of highway

tower has a range of 5 miles. Now assume that the Time to Live (TTL) is 6 minutes. Suppose that the capacity of the cell towers has decreased to $\,$ 150. Given the range of each cell tower, how many towers are needed to cover the 15-mile stretch of highway? O 3 O <3 > 3 O Cannot be determined 5. What is the advantage of registration area based location information as opposed to cell based location 1 point information? O Lower search cost O Lower registration cost O Lower update cost O Lower handoff cost 6. In a tree based replication with n location registrars, what is the worst case search cost? 1 point 2 log(n) n/2 O Log(n) O n^2 7. Why does IPv4 fail for mobile internet? 1 point O DNS servers are not configured for messages from mobile phones. Too many DNS updates will overload the system. O There are not enough IP addresses. Mobile phones are not equipped to support IPv4. 8. Why can ingress filtering cause problems for mobile IP? 1 point O It causes message integrity problems. O It introduces inefficiencies and causes delays in communication. O It causes man-in-the-middle problems. It can potentially prevent legitimate communication. 9. When does mobile IP protocol introduce inefficiencies? 1 point O When ingress filtering is not applied. O When the mobile host goes to a remote foreign agent. When the correspondent host and the mobile host are in the same network. O When the mobile host does not move.

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Each cell tower that is installed has the capacity to store the location information of 200 mobile phones. Each cell