CHAPTER 27

Mobile IP

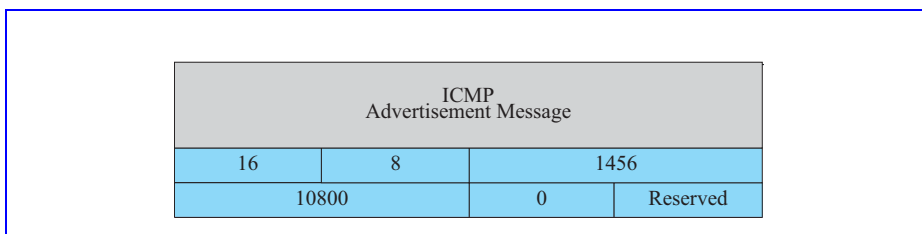## 27.1   MULTIPLE-CHOICE QUESTIONS

1. **a**	3. a	5. a	7. b	9. a
11. a	13. a	15. a	17. b	19. c

27.2   EXERCISES

21. If a mobile host acts as a foreign agent, registration is still required. The mobile host/foreign agent still has to register with the home agent.

23. See Figure 27.1.

Figure 27.1   *Exercise 23*

25. An ICMP router solicitation message can also be used for agent solicitation by a mobile host that has moved to a new network. No extra fields are needed because the agent is looking for information. The agent's own address is already included in the message.

27. See Figure 27.2. (The protocol field is set to 1 to indicate ICMP.)

29. See Figure 27.3.

31. See Figure 27.4.

Figure 27.2   *Exercise 27*

4	5	0	44
42		0	0
15	Protocol	Header checksum	
Source IP address			
Destination IP address			
ICMP Advertisement Message			
16	8	1456	
10800		0	Reserved

Figure 27.3   *Exercise 29*

4	5	0	length
42		0	0
15	Protocol	Header checksum	
200.4.7.14			
130.45.6.7			
Data			

33. Triangle routing is the type of inefficiency. The packet travels to an extra network before it reaches the desitination.

Figure 27.4 *Exercise 31*

4	5	0	length
207		0	0
15	Protocol	Header checksum	
14.67.34.30			
14.56.8.9			
4	5	0	length
42		0	0
15	protocol	Header checksum	
200.4.7.14			
130.45.6.7			
Data			