Name.

ID.

Serial:

- Given a MAC Address 00:1A:2B:3C:4D:5E
 - a. This MAC is a

Unicast

Multicast. [1]

This MAC is administered

Locally

Globally [1]

- 2. Refer to the diagram below where. Host A wants to send a packet to Host M (IP known only).
 - a. What packet will be sent first? [2]

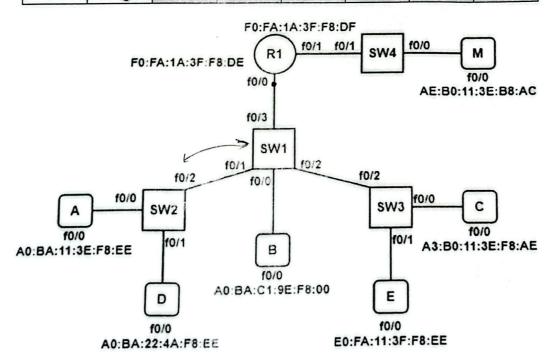
Main Frame ARP Request Frame

b. Identify the destination IP & MAC addresses of the frame you sent in [ii [2] Mention the device name only.

> Destination IP: **Destination MAC:**

- c. Update the table of all the switches after the frame in (i) is sent. [4]
- d. Switch 2 will broadcast unicast the frame sent in (i) [2]
- 3. Would D ever know the MAC address of B? Of course
- 4. Assume A and M successfully communicated their messages. Update the tables again, this time underline the updated device names like "A" [2]

- SW1		SW2		SW3		SW4	
f0/0	-	fO /0		f0/0		f0/0	
f0/1		f0/1		f0/1		f0/1	
f0/2		f0/2		f0/2			
f0/3	-						alia (i



Name:

Time: 20 mins

ID:

Serial:

- 1. Given a MAC Address 00:1A:2B:3C:4D:5E
 - a. This MAC is a

Unicast

Multicast. [1]

b. This MAC is administered

Locally

Globally [1]

- Refer to the diagram below where. Host A wants to send a packet to Host M (IP known only).
 - a. What packet will be sent first? [2]

Main Frame

ARP Request Frame

b. Identify the destination IP & MAC addresses of the frame you sent in (i) [2]
Mention the device name only.

Destination IP: _____ Destination MAC: _____

- c. Update the table of all the switches after the frame in (i) is sent. [4]
- d. Switch 2 will broadcast unicast the frame sent in (i) [2]
- 3. Would D ever know the MAC address of B? Of course Never [1]
- 4. Assume A and M successfully communicated their messages. Update the tables again, this time underline the updated device names like "A" [2]

SW1	SW2	SW3	SW4	
f0/0	fO/0	f0/0	f0/0 M	
f0/1	fO/1	10/1	f0/1	
f0/2	f0/2	f0/2		
f0/3	7 . 1 . 20		A CONTRACTOR	

