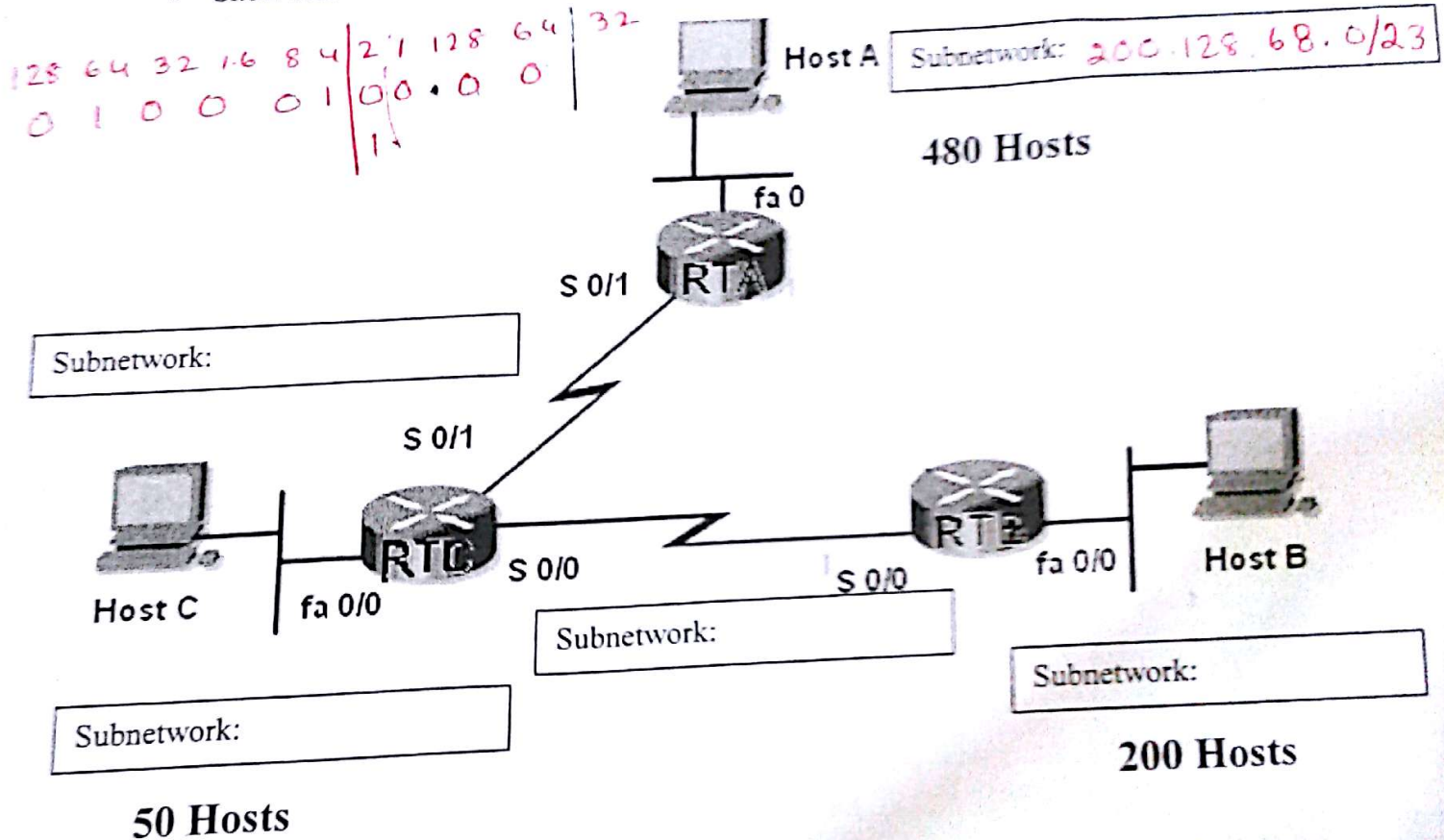Student ID:

Time: 15 Minutes

Scenario :

- Address space: **200.128.68.0/22**
- RTA has 480 hosts; RTB has 200 hosts; RTC has 50 hosts
- Assign subnets IP addresses after applying efficient subnetting to the topology below.
- Do not forget the "**Serial Links**" of the routers.
- Show calculations.

```
128  64  32  16  8  4 | 2  1  128  64 | 32
  0   1   0   0  0  1 | 0  0    0 . 0    0
                      1
```

Host A Subnetwork: 200.128.68.0/23

480 Hosts

fa 0

S 0/1 RTA

Subnetwork:

S 0/1

Host C

fa 0/0

RTC S 0/0

Subnetwork:

S 0/0

RTB fa 0/0 Host B

Subnetwork:

Subnetwork:

200 Hosts

50 Hosts

200.128.68.0/23   200.128.70.0/23

200.128.70.0/24

200.128.71.0/24

200.128.71.0/26   200.126.71.128

200.128.71.128/30