**CSC 506 REVISION**

**QUESTION TWO**

2a (i). Sub-netting is an art of logically subdividing a network into several smaller networks.

(ii). It allows companies have full control over their networks.

It boosts network security.

It reduces congestion and load.

Efficient routing of traffic to improve speed

2b (i). A subnet mask defines the range of IP addresses that can be used within a network or subnet. It divides the IP address into the network bit and the host bit.

(ii). Class A – 255.0.0.0

Class B – 255.255.0.0

Class C – 255.255.255.0

2c (i). Classful routing does not import the subnet mask. The subnet mask is provided after the route update. The subnet mask here is the same throughout. Classless routing imports the subnet mask, and here, triggered updates are used. Subnet mask here may vary for all devices.