**Quiz 2 – Optical Networks**

Design a degree-3 node architecture (with east and west links), using elements you have learned about (WSSs, AWGs, splitters, etc.), that fulfills three requirements:

* wavelengths pass through this node from east to west,
* wavelength add to the south link from this node,
* wavelength add to the west link from this node,
* wavelength , incoming on east link, drops at this node.
* wavelength pass through this node from east to south,

while deploying

1. only AWGs (no WSS) in the node structure.
2. WSSs in the node structure.

Compare your design from the cost and operability points of view for different node architectures. Explain the major differences between designs of parts a) and b).