Using Netkit, implement the network depicted in the following figure.

- All the internal networks (in grey) of the ASes must be visible by all BGP routers.
- All the internal networks of the ASes must be reachable from any network nodes.
- Inter-AS peering subnets must be announced in BGP as well.
- No router announces 0/0.
- By altering solely the configuration of as200r1, implement the following routing policy:
  - Traffic from AS200 to AS100 should favour using link A100A200C1.
  - Traffic from AS100 to AS200 should favour using link A100A200C2.
ICN – Examination date: 10-12-2012 – Round 1 – “Pi”
Available time: 100 minutes.

Using Netkit, implement the network depicted in the following figure.

- All the internal networks (in grey) of the ASes must be visible by all BGP routers.
- All the internal networks of the ASes must be reachable from any network nodes.
- Inter-AS peering subnets must be announced in BGP as well.
- No router announces 0/0.
- By altering solely the configuration of as10r1, implement the following routing policy:
  - Link A20A10C1 must be set up as a backup of A20A10C2 for both inbound and outbound traffic.
ICN – Examination date: 10-12-2012 – Round 2 – “Sandwich”
Available time: 100 minutes.

Using Netkit, implement the network depicted in the following figure.

- All the internal networks (in grey) of the ASes must be visible by all BGP routers.
- All the internal networks of the ASes must be reachable from any network nodes.
- Inter-AS peering subnets must be announced in BGP as well.
- No router announces 0/0.
- By altering solely the configuration of as3r2, implement the following routing policy:
  - Traffic from AS3 to AS2 should favour using link A2A3C2.
  - Traffic from AS2 to AS3 should favour using link A2A3C1.
Using Netkit, implement the network depicted in the following figure.

- All the internal networks (in grey) of the ASes must be visible by all BGP routers.
- All the internal networks of the ASes must be reachable from any network nodes.
- Inter-AS peering subnets must be announced in BGP as well.
- No router announces 0/0.
- By altering solely the configuration of as300r1, implement the following routing policy:
  - Link A200A300C1 should be set up as a backup of link A200A300C2 for both inbound and outbound traffic.