

Date

17.02.2014

Examination

Vastaa lyhyesti **vain viiteen (5)** kysymykseen.
Give brief and concise answers to **only five (5)** questions.

1. *What is routing and what are the key functions of routing? Describe the difference between circuit and packet switching in terms of routing.*
2. *Why does OSPF need to choose the designated and the backup designated router? Give the algorithm, OSPF uses to select the designated and the backup designated router.*
3. *How did CIDR change Internet routing?*
4. *Describe the RPF (reverse path forwarding) algorithm and its properties. Describe the flood and prune algorithm and its properties. Give an example of a protocol based on this algorithm.*
5. *What characteristics are typical to mobile ad hoc networks? How do these properties affect routing?*
6. *How do proactive and reactive routing methods differ? Describe how a reactive routing protocol creates a route. Name one reactive routing protocol, and describe briefly how packets are sent in them.*