

Date

11.12.2013

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 types of routing based on 3 different classifications and the properties of each type, give at least one example routing protocol for each type.*
2. *What are the shortcomings of RIP? What are the main difference between RIP and OSPF? Please describe the advantages and disadvantages of OSPF.*
3. *Give Dijkstra's shortest path first algorithm that can also find alternative paths.*
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. *Compare the headers of IPv4 and IPv6. Which are the main differences? How are extensions implemented in IPv6?*
6. *Describe the network elements and the operating principles of Mobile IP (IPv4 assumed).*