


TTY
EXAM 24.5.2012

SET-1520 New applications in Electrical Energy Engineering
Tentissä SAA käyttää OMAA laskinta
(own calculator can be used in the exam)

You can answer in Finnish or in English

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1. a) What is the main difference between “*Demand Response*” and “*Energy saving*”? (2p)
b) List the main benefits which can be achieved by “*Demand Response*” (4p)
 2. What are the main benefits and challenges of the LVDC distribution network compared to the traditional low voltage network? Answer with the whole sentences, not just a list with separate words. (6p)
 3. What can be achieved with cable condition monitoring and what questions need to be answered during the creation of a cable network maintenance plan? (6p)
 4. Explain shortly who are the other actors in addition to the DSOs in major disturbance and how are they related to the situation? (6p)

Explain what is CIM and how it is used to facilitate inter-application communications in distribution companies? (6p)