

Final Exam
DT154G Network Technology B

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Instructions

Carefully read the questions before you start answering them. Note the time limit of the exam and plan your answers accordingly. Only answer the question, do not write about subjects remotely related to the question.

Do not write your answers on the exam paper. Write your answers on separate sheets. Start each question on a new sheet, and only write on one side of the sheets. Do not forget to *motivate your answers*.

Make sure you write your answers clearly, if I cannot read an answer the answer will be awarded no points – even if the answer is correct. The questions are *not* sorted by difficulty.

Time 5 hours.

Exam Aids Dictionary.

Maximum points 15

Questions 5

Preliminary grades

The following grading criteria applies: $E \geq 7p$, $D \geq 9p$, $C \geq 10p$, $B \geq 12p$, $A \geq 13p$, Scoring will be based on level of depth shown in your answer. To pass this exam you must have shown proficient knowledge in all the intended learning outcomes covering the first part of the course.

Questions

The questions below are not given in any particular order.

- (3p) 1. Point out and discuss some reasons for why there is a need for a spanning-tree protocol in an ethernet network.
- (3p) 2. What are some problems that can arise when configuring route-summarizations?
- (3p) 3. Pick one EIGRP package type and give a thorough explanation about it.
- (3p) 4. Discuss the different types of FHRP covered in this course.
- (3p) 5. OSPF supports a mechanism that allows to routers to authenticate themselves. Choose a authentication mechanism that ospf supports and elaborate on the advantages and disadvantages of chosen mechanism.