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**UNIVERSITÄT  
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# HS2020: 11072 Advanced Networking and Future Internet

## Practical Exercises 4

**Jesutofunmi Ademiposi Ajayi**

**Lucas Pacheco**

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# Instructions

Submit your exercises in PDF format in the corresponding task on ILIAS by sunday, 17.10.2020 at 23:55.

## Question 1 (2 points)

**There are multiple MPLS signaling protocols in use today. For Traffic Engineering, which should be used? Justify your choice.**

## Question 2 (2 points)

**Explain the difference between routing and forwarding from a control plane point of view. Describe how labels work in terms of the layer they are present in and their role in routing.**

## Question 3 (1 point)

**Explain how forwarding application class is converted into a NHLFE and how it can be used for load balancing in the network.**

## Question 4 (1 point)

**Explain the advantages and disadvantages of centralized/decentralized traffic engineering**

## Question 5 (1 point)

**Explain the mechanisms, advantages and disadvantages of hop-by-hop routing and explicit routing.**



## Question 6 (1 point)

**How do overlay networks benefit routing?**

# Meta-Questions?

contact me at [lucas.pacheco@inf.unibe.ch](mailto:lucas.pacheco@inf.unibe.ch)