

EXAM FOR TOPOLOGY
WINTER SEMESTER 2025/2026

QUESTIONS SET NO. 7

1. Give a definition of the quotient topology. Provide examples of quotient topologies.
2. Does there exist a topological space X such that:
 - a) Any map from X to any topological space is continuous?
 - b) Any map from any topological space to X is continuous?
 - c) X satisfies both a) and b)?