

EXAM FOR TOPOLOGY
WINTER SEMESTER 2025/2026

QUESTIONS SET NO. 3

1. Give a definition of the topology induced on a subset of a topological space. Prove that this is indeed a topology. Provide examples.
2. Give an example of a topological space and a nonempty subset A in it such that:
 - 1) $\text{Int}A = \text{Fr}A$
 - 2) $\text{Cl}A = \text{Fr}A$.