Following a Labeled Hydrogen in a Transfer

Scoring guide · one credit per question · review written work against each rubric

Following a Labeled Hydrogen in a Transfer

Question 1

Choice (1)

NH_3 gains the labeled hydrogen ion and becomes NH_3D^+.

Question 2

NH_4^+ shows that ordinary H^+ transferred. D remains attached to oxygen in the negative product, OD^-.

Question 3

Twelve D^+ transfers leave 12 OH^- ions. The eight H^+ transfers leave 8 OD^- ions.

Question 4

Either transfer makes one +1 and one −1 ion. Their charges cancel in both events, so charge balance cannot identify where the D atom ended up.