Solutions

2.1

- Primary – it prevents the disease occurring ✓.

2.2

- Screening tests asymptomatic people; testing the symptomatic is diagnosis ✓.

2.3

- Beveridge (general taxation) and Bismarck (social insurance) ✓.

3.1

- 20 diseased (2 %) → 18 TP, 2 FN ✓.
- 980 well → 98 FP; PPV = 18/116 ≈ 15.5 % ✓.
- Criteria: importance ✓; treatable-early needs a real pool; harm: 98 false positives + over-diagnosis per 1,000 ✓.
- Lever: the interval – the pre-clinical pool sets prevalence and thus PPV ✓.

3.2

- Beveridge: tax-funded, free at the point of use; Bismarck: wage-funded insurance funds ✓.
- Gatekeeping coordinates but can delay; free access raises use and cost ✓.
- Every consultation inherits what is covered, who pays, who gates ✓.