Solutions

2.1

- Splenic sequestration – portal hypertension pools platelets in the enlarged spleen ✓.

2.2

- ≥3.5 g/day ✓.

2.3

- Albumin and INR ✓.

3.1

- Varices: the emergency portosystemic collateral ✓.
- Ascites: ↑ portal hydrostatic plus ↓ oncotic (low albumin) ✓.
- Bruising: synthetic failure – clotting factors, vitamin K, INR ✓.
- Drowsiness: ammonia crossing into brain – encephalopathy ✓.

3.2

- A: nephritic – blood with casts, hypertension, protein <3.5 ✓.
- B: nephrotic – 4.2 g/day ≥3.5, albumin 2.4 low, frothy urine ✓.
- B oedemas: albumin lost → oncotic falls → periorbital swelling ✓.
- A hypertensive: inflammation drives volume and renin ✓.