Solutions

2.1

- N3 (slow-wave sleep), delta 0.5–4 Hz ✓.

2.2

- Hippocampus (episodic) and striatum (procedural) ✓.

2.3

- Conduction aphasia – the arcuate fasciculus is cut ✓.

3.1

- N3 front-loaded: cycles 1–2 carry most slow-wave sleep ✓.
- REM lengthens toward morning; ~20–25 % of the night ✓.
- REM features: muscle atonia, vivid dreams ✓.
- Early loss costs N3 (growth hormone); late loss costs REM ✓.

3.2

- Conduction aphasia: arcuate fasciculus (the cable) cut ✓.
- Broca: non-fluent, comprehension intact, repetition impaired ✓.
- Wernicke: fluent-empty, comprehension impaired, repetition impaired ✓.
- Repetition requires the front-to-back cable – only its lesion spares both other axes ✓.