

**Problem 5.** Rules:

- Word order: VXY, XVY ( $\{X, Y\} = \{S, O\}$ ; V = verb, S = subject, O = object)

- Noun: ri (pl: taq) N

- Verb: x- sg — ru — [stem]; before a vowel ru- > r-, ki- > k-
- |    |    |    |
|----|----|----|
|    | O  | S  |
| x- | sg | —  |
|    | pl | ru |

- |                              |        |                            |       |
|------------------------------|--------|----------------------------|-------|
|                              |        | Auditory Cortex (activity) |       |
|                              |        | higher                     | lower |
|                              |        | VXY                        | XVY   |
| Frontal Cortex<br>(activity) | higher | VSO                        | OVS   |
|                              | lower  | VO                         | VOS   |

Answers:

- (a)
1. Xerunüm ri taq säq ri xar
  2. Ri taq [q'ëq]<sub>A</sub> xkich'äy [ri]<sub>B</sub> käq
  3. [Xeroyoj]<sub>C</sub> ri q'ëq ri taq käq
  4. Ri q'ëq xkoyoj [ri taq xar]<sub>D</sub>
  5. [Xkinüm ri taq käq]<sub>E</sub> ri säq
  6. Xkich'äy [ri xar ri taq säq]<sub>F</sub>
  7. [Ri taq xar]<sub>G</sub> xeroyoj [ri käq]<sub>H</sub>
  8. [Ri säq xeruch'äy ri taq q'ëq]<sub>I</sub>

- (b)
9. Ri taq säq xkinüm ri q'ëq
  10. Xekich'äy ri taq xar ri taq käq



- (c)
- Xroyoj ri säq ri xar
  - Xroyoj ri xar ri säq
  - Ri xar xroyoj ri säq
  - Ri säq xroyoj ri xar

- (d)

		Frontal Cortex (activity)	Auditory Cortex (activity)
11	Xeruq'etey ri käq ri taq q'ëq	higher	higher
12	Xerachik'aj ri taq säq ri xar	lower	higher
13	Ri taq q'ëq xekitz'ët ri taq säq	?	lower