## Олимпиада студентов и выпускников «Высшая лига», 2 этап, 2021 г.

# Направление: «360. Фундаментальная и прикладная лингвистика»

### Время выполнения – 180 мин.

#### Максимальный балл – 100.

## Задание 1 (35 баллов).

Read the task and answer the questions below.

A row of recruits are being drilled on parade grounds. Their captain gives them a command "To the right!" The recruits randomly turn to the right or to the left. The captain repeats the command "To the right!" Upon hearing this, the next thing happens: All recruits that are facing each other decide they did it wrong and turn all around (180 degree) to face the opposite direction. The number of recruits is a finite positive n.

- 1. Is it possible that the recruits will be turning around infinitely? If yes, provide the conditions, including n (the number of the soldiers) and what happens next. If it is impossible, prove why.
- 2. Under which circumstances, all soldiers will at some point face rightwards? leftwards?
- 3. Under which circumstances, the soldiers will not be turning around after the first turn (will make only one turn).

## Задание 2 (65 баллов).

... though thou givest many gifts (Proverbs 6: 35)

In each example, provide plausible interlinear morphological glossing. Where necessary, explain the distribution of the markers (to the limit the data allows). Try to provide a typologically informed characterization of the system of expression of number on the noun and the verb.

Notes and hints: assume -5 is a root morpheme. The acute indicates high tone, and low tone is left unmarked;  $\sim$  over a vowel indicates its nasalization.

- 1. Tsenbó: gyaź. I gave a cow.
- 2. Tsenbó: nẽns. I gave two cows.
- 3. Tsenbó:go déź. I gave (three or more) cows.
- 4. Ayp<sup>(</sup>í)ego déő. I gave a potato.
- 5. Ayp<sup>s</sup>í?e nẽnắ. I gave two potatoes.
- 6. Ayp<sup>s</sup>í?e gyatɔ́. I gave (three or more) potatoes.
- 7. Tsế gyaố. I gave a horse.
- 8. Tsế nẽnổ. I gave two horses.
- 9. Tsego déő. I gave (three or more) horses.
- 10. Ts<sup>c</sup>ó: gya<sup>5</sup>. I gave a stone.
- 11. Ts<sup>s</sup>ó: nẽnź. I gave two stones.
- 12. Ts<sup>ç</sup>ó: gyatɔ́. I gave (three or more) stones.
- 13. Yáypó gya5. I gave a rope.
- 14. Yáypó nẽnổ. I gave two ropes.
- 15. Yáypó gyatố. I gave (three or more) ropes.
- 16. Aydego déő. I gave a leaf.
- 17. Aydē nēnɔ̃. I gave two leaves.
- 18. Aydē gyatɔ̃. I gave (three or more) leaves.