

en

Fourth Asia Pacific Linguistics Olympiad

10 – 24 April 2022

Solutions

Problem 1.

1. Sentence structure: $\begin{cases} V_i \text{ (intransitive): } S_i V \\ V_t \text{ (transitive): } S_t V O \end{cases}$

2. Noun structure: $\begin{array}{c|cc} & S_i \text{ or } O & S_t \\ \hline \text{singular} & \boxed{\text{STEM}} & \boxed{\text{STEM}} h\bar{e} \\ \text{dual} & \boxed{\text{STEM}-ra} & \boxed{\text{STEM}-r\bar{a}} \end{array}$

3. Verb structure: $\boxed{\text{TENSE}} - \boxed{\text{SUBJ}} - (\boxed{\text{OBJ}}) - \boxed{\text{CLASS}} - \boxed{\text{STEM}}$

• $\boxed{\text{TENSE}} = \begin{array}{c|cc} & V_i & V_t \\ \hline \text{Tense I} & ka- & \\ \text{Tense II} & jy- & \emptyset \end{array}$ Tense I = future
Tense II = $\begin{cases} \text{present } (V = \text{stative}) \\ \text{perfect } (V = \text{dynamic}) \end{cases}$

• $\boxed{\text{SUBJ}}, \boxed{\text{OBJ}} = \begin{array}{c|cc|cc} & S_i \text{ or } O & & S_t & \\ \hline \text{1st person} & ra- & & ri- & \\ \text{2nd person} & a- & & ka- & \\ \text{3rd person} & \emptyset & & ti- & \end{array} \begin{array}{cc} \text{singular} & \emptyset \\ \text{dual} & m\bar{e}- \end{array}$

• $\boxed{\text{CLASS}} = \begin{array}{c|c} & S_i \text{ or } O \\ \text{grains} & sy- \\ \text{fruit} & kua- \\ \text{otherwise} & \emptyset \end{array}$

• $\boxed{\text{STEM}}:$

$- V_i:$	$\begin{array}{l} \emptyset \text{ 'be ripe'} \\ r\bar{a}pio \text{ 'be warm' } \sim \text{ 'be sick'} \\ r\bar{a}pr\bar{a} \text{ 'be painted' } \sim \text{ 'be red'} \end{array}$	stative
$- V_t:$	$\begin{array}{l} pi\bar{a} \text{ 'grow'} \\ t\bar{e} \text{ 'fall'} \\ t\bar{o}py \text{ 'buy'} \\ k\bar{a} \text{ 'cut'} \\ sa \text{ 'bite'} \end{array}$	
		dynamic

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|--|---|
| (1) You two have fallen. | (5) pr\bar{i} h\bar{e} tisyk\bar{a} kior\bar{i}p\bar{e} |
| (2) The genipap is ripe. | (6) m\bar{o}syra jym\bar{e}syr\bar{a}pr\bar{a} |
| (3) You two have bitten the rice. | (7) y\bar{o}riti h\bar{e} tim\bar{e}kuasa piut\bar{i}ra |
| (4) marar\bar{a} tim\bar{e}kuat\bar{o}py kwati | (8) \bar{ik}j\bar{e} karapi\bar{a} |