REFERENCES


Appendix A: Instrument

Based on the X-bar theory, please draw the syntactic tree diagrams for the phrases and clauses in Section A and B below. You must show all the minimal, intermediate, and maximal projections within an XP.

Section A: Phrases
Q1) girl in the room with a broken heart
Q2) wash the car with two men
Q3) donation from the company to the school
Q4) walking in the street without his company
Q5) drawing the trees without hesitation
Q6) dreaming with a broken heart about your future
Q7) important for your health in the future
Q8) go to the library at night
Q9) comfortable with the arrangement in the morning

Section B: Clauses
Q10) They are recording a discussion on gambling in the class.
Q11) The linguistics students frequently buy books from Richard.
Q12) The old man likes the small house in the village.
Q13) Ladies will buy the expensive bag in the shop with all their money.
Q14) The naughty boy was poking the spider in the class with a pencil.
Q15) The dangerous dog in the park is chasing the dirty cat.
Appendix B: My tree diagrams

Q1) \([N \text{ girl}] [PP \text{ in the room}] [PP \text{ with a broken heart}]\)
    \(N + \text{ (adjunct 1)} + \text{ (adjunct 2)}\)
Q2a) \([V \text{ wash}] [\text{DP the car}] [\text{PP with two men}]\)
\[V \ + \ (\text{complement}) \ + \ (\text{adjunct 2})\]

Q2b) \([V \text{ wash} \ N' \text{ car with two men}]\)
\[V \ + \ (\text{complement}) \ + \ (\text{adjunct 2})\]
Q3) \([_{N\text{ donation}}]\) \([_{PP\text{ from the company}}]\) \([_{PP\text{ to the school}}]\)

\[ N + \text{ (adjunct 1) + (adjunct 2)} \]

Q4) \([_{V\text{ walking}}]\) \([_{PP\text{ in the street}}]\) \([_{PP\text{ without his company}}]\)

\[ V + \text{ (adjunct 1) + (adjunct 2)} \]
Q5) \[ \text{[V drawing] [DP the trees] [PP without hesitation]} \]
\[ V + (\text{complement}) + (\text{adjunct}) \]

Q6) \[ \text{[V dreaming] [PP with a broken heart] [PP about your future]} \]
\[ V + (\text{adjunct 1}) + (\text{adjunct 2}) \]
Q7)  [A important] [PP for your health] [PP in the future]
A + (adjunct 1) + (adjunct 2)

Q8)  [V go] [PP to the library] [PP at night]
V + (complement) + (adjunct)
Q9) \([A \text{ comfortable}] [\text{ PP with the arrangement}] [\text{ PP in the morning}]\)

\[
\begin{array}{c}
A' \\
| \\
A' \\
| \\
A' \\
| \\
A' \\
| \\
A' \\
| \\
A' \\
| \\
A' \\
\end{array}
\]

\[
\begin{array}{c}
\text{comfortable} \\
| \\
\text{ P} \\
| \\
\text{ DP} \\
| \\
\text{ with} \\
| \\
\text{ D'} \\
| \\
\text{ D} \\
| \\
\text{ NP} \\
\end{array}
\]

\[
\begin{array}{c}
\text{the} \\
| \\
\text{ N'} \\
| \\
\text{ N} \\
| \\
\text{ morning} \\
\end{array}
\]

arrangement
Q10a) They are \( [v\text{-}recording\text{ a discussion on gambling}] [pp\text{ in the class}] \)

Argument structure: record: \([v]: [DP, DP]\)

Thematic structure: record: \([v]: \langle\text{agent, theme}\rangle\)
Q10b) They are recording a discussion on [N' gambling] [PP in the class]

Argument structure: record: [v]: [DP, DP]
Thematic structure: record: [v]: <agent, theme>
Q11a) The linguistics students frequently \( \text{buy books} \) \( \text{[pp from Richard]} \)

Argument structure: \( \text{buy: [v]: [DP, DP]} \)

Thematic structure: \( \text{buy: [v]: <agent, theme>} \)
Q11b) The linguistics students frequently buy \([N^\prime \ books] [_{PP} \ from \ Richard]\)

Argument structure: \(\text{buy: } [v]: [\text{DP, DP}]\)

Thematic structure: \(\text{buy: } [v]: <\text{agent, theme}>\)
Q11c) The linguistics students frequently [v: buy books] [pp: from Richard]

Argument structure: buy: [v]: [DP, DP]
Thematic structure: buy: [v]: <agent, theme>
Q12a) The old man likes the [AP small] house [PP in the village]
(adjunct 1) + head + (adjunct 2)
Q12b) The old man likes the [AP small] house [PP in the village]
(adjunct 1) + head + (adjunct 2)
Q13a) Ladies will \( v \) buy the expensive bag \( [p_p \text{ in the shop}] \) with all their money

Argument structure: \( \text{buy: \([v]: [DP, DP]\)} \)
Thematic structure: \( \text{buy: \([v]: \langle \text{agent, theme}\rangle\)} \)
Q13b) Ladies will buy the \([N^{\text{-}}{}_{\text{expensive}} \text{ bag}]\) \([pp \text{ in the shop}]\) with all their money

Argument structure: \(\text{buy}: [v]: [\text{DP, DP}]\)

Thematic structure: \(\text{buy}: [v]: \langle\text{agent, theme}\rangle\)
Q13c) Ladies will buy the expensive [N', bag] [PP in the shop] with all their money

Argument structure: buy: [v]: [DP, DP]
Thematic structure: buy: [v]: <agent, theme>
Q14a) The naughty boy was [\(V^v\) poking the spider] [\([PP \text{ in the classroom}]\) with a pencil

Argument structure:
poke: \([v]: [\text{DP, DP}]\)

Thematic structure:
poke: \([v]: <\text{agent, theme}>\)
The naughty boy was poking the [N' spider] [PP in the class] with a pencil.

Argument structure: poke: [v]: [DP, DP]
Thematic structure: poke: [v]: <agent, theme>
Q15a) The [AP dangerous] dog [PP in the park] is chasing the dirty cat
(adjunct 1)+ head + (adjunct 2)
Q15b) The [AP dangerous] dog [PP in the park] is chasing the dirty cat
(adjunct 1) + head + (adjunct 2)
Appendix C: Participants’ tree diagrams

Participant 1_Q3
A drowsy dog in the park is chasing a sleepy cat.

Participant 2_Q15
Participant 3_Q5
Participant 3_Q9

Diagram:

NP
| PP
| NP
| PP
| NP

N
| prep
| NP
| prep
| NP
| prep
| NP

comfortable
| with
| the
| arrangement
| in
| the
| morning
The old man likes the small house in the village.
Participant 6_Q2

wash the car with two men
They are recording a discussion on gambling in the clow...
Participant 7, Q6

Dreaming with a broken heart about your fortune.
the naughty boy was poking the spider in the class with a pencil.
Participant 8_Q2

```
VP
  /
V'
  /
  DP
  /
  
  V
  /
wash

  Det
  /
  the

  N
  /
  car

  P
  /
  with

  N
  /
  two

  N
  /
  men
```

"Wash the car with two men."
Participant 8_Q8

```
VP
  /\    
P'/  
PP
  /\   
DP   PP
  /\  /\ 
V  P  Det N  N
  |   |   |   |
go to the library at night
```
The old man likes the small house in the village.
wash the car with two men
The dangerous dog in the park is chasing the dirty cat.
Participant 12_Q1

"Girl in the room with a broken heart"
Participant 12_Q6

dreaming with a broken heart about your future
important for your health in the future.
Participant 13_Q4

Walking in the street without his company
The linguistics students frequently buy books from Richard.
The old man likes the small house in the village.
(Q2) The old man likes the small house in the village
NP
  N
  girl
  PP
    P
    in
    DP
      D
      N
      the
      room
  NP
    PP
      N
      when
    AdjP
      N
      broken
    N
    head.
Participant 16_Q12
girl in the room with a broken heart
Participant 17_Q2

wash the car with two men