Chapter 11, Problem 6: Extraposition and Adjectives

A. (i) That Kim smokes is annoying.

   (ii) It is annoying that Kim smokes.

  (iii) That Kim smokes is surprising.

  (iv) It is surprising that Kim smokes.

B.

$$
\left\langle \text{obvious} \,, \begin{bmatrix} \textit{adj-lxm} \\[4pt] \text{ARG-ST} \quad \left\langle \begin{bmatrix} \text{HEAD} & \textit{nominal} \\[4pt] \text{VAL} & \begin{bmatrix} \text{SPR} & \langle\,\rangle \\ \text{COMPS} & \langle\,\rangle \end{bmatrix} \\[8pt] \text{INDEX} & s_2 \end{bmatrix} \right\rangle \\[20pt] \text{SEM} \quad \begin{bmatrix} \text{INDEX} & s_1 \\[4pt] \text{RESTR} & \left\langle \begin{bmatrix} \text{RELN} & \text{obvious} \\ \text{SIT} & s_1 \\ \text{ARG} & s_2 \end{bmatrix} \right\rangle \end{bmatrix} \end{bmatrix} \right\rangle
$$

C. In this answer, we have left out constraints inherited from *adj-lxm* in order to focus on the combination of the constraints provided by the lexical entry and those provided by the lexical rule.

$$
\left\langle \text{obvious} \,, \begin{bmatrix} \textit{word} \\[4pt] \text{SYN} \quad \begin{bmatrix} \text{VAL} & \begin{bmatrix} \text{SPR} & \langle\ \boxed{1}\text{NP[FORM it]}\ \rangle \\ \text{COMPS} & \langle\ \boxed{2}\text{CP}\ \rangle \end{bmatrix} \end{bmatrix} \\[14pt] \text{ARG-ST} \quad \left\langle \boxed{1}\,, \boxed{2}\begin{bmatrix} \text{INDEX} & s_2 \end{bmatrix} \right\rangle \\[10pt] \text{SEM} \quad \begin{bmatrix} \text{INDEX} & s_1 \\[4pt] \text{RESTR} & \left\langle \begin{bmatrix} \text{RELN} & \text{obvious} \\ \text{SIT} & s_1 \\ \text{ARG} & s_2 \end{bmatrix} \right\rangle \end{bmatrix} \end{bmatrix} \right\rangle
$$

D.

S
$$\begin{bmatrix} \text{SPR} & \langle\,\rangle \\ \text{COMPS} & \langle\,\rangle \end{bmatrix}$$

[1]NP
$$\begin{bmatrix} \text{SPR} & \langle\,\rangle \\ \text{COMPS} & \langle\,\rangle \end{bmatrix}$$

it

VP
$$\begin{bmatrix} \text{SPR} & \langle\,[1]\,\rangle \\ \text{COMPS} & \langle\,\rangle \end{bmatrix}$$

V
$$\begin{bmatrix} \text{SPR} & \langle\,[1]\,\rangle \\ \text{COMPS} & \langle\,[2]\,\rangle \end{bmatrix}$$

is

[2]AP
$$\begin{bmatrix} \text{SPR} & \langle\,[1]\,\rangle \\ \text{COMPS} & \langle\,\rangle \end{bmatrix}$$

A
$$\begin{bmatrix} \text{SPR} & \langle\,[1]\,\rangle \\ \text{COMPS} & \langle\,[3]\,\rangle \end{bmatrix}$$

obvious

[3]CP
$$\begin{bmatrix} \text{SPR} & \langle\,\rangle \\ \text{COMPS} & \langle\,\rangle \end{bmatrix}$$

C
$$\begin{bmatrix} \text{SPR} & \langle\,\rangle \\ \text{COMPS} & \langle\,[4]\,\rangle \end{bmatrix}$$

that

[4]S
$$\begin{bmatrix} \text{SPR} & \langle\,\rangle \\ \text{COMPS} & \langle\,\rangle \end{bmatrix}$$

[5]NP
$$\begin{bmatrix} \text{SPR} & \langle\,\rangle \\ \text{COMPS} & \langle\,\rangle \end{bmatrix}$$

VP
$$\begin{bmatrix} \text{SPR} & \langle\,[5]\,\rangle \\ \text{COMPS} & \langle\,\rangle \end{bmatrix}$$

worked

[6]DP
$$\begin{bmatrix} \text{SPR} & \langle\,\rangle \\ \text{COMPS} & \langle\,\rangle \end{bmatrix}$$

the

NOM
$$\begin{bmatrix} \text{SPR} & \langle\,[6]\,\rangle \\ \text{COMPS} & \langle\,\rangle \end{bmatrix}$$

ad