

Final Examination
June 21, 1999
Two Hours



1. Give derivations for the following sentences, in each instance starting with the deep structure and then indicating the effects of any relevant transformations. (50 points)

- a. Which book did you say was written by the gunman that the police arrested yesterday?
- b. That it is obvious to everyone that crooks live long is baffling to me.
- c. It is hard for me to be seen to be losing.
- d. Does it surprise you that the moon is made of dead rocks?

2. Consider the following sentences: (30 points)

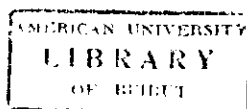
- a.
 - i. Suzie went to the opera with the schoolmaster and the inspector.
 - *ii. Which schoolmaster did Suzie go to the opera with and the inspector?
 - *iii. Which inspector did Suzie go to the opera with the schoolmaster and?
 - iv. Who did Suzie go to the opera with?
- b.
 - i. We sent the boy and the girl to the neighbors' house.
 - *ii. The boy that we sent and the girl to the neighbors' house has not come back.
 - *iii. The girl that we sent the boy and to the neighbors' house has not come back.
 - iv. The boy and the girl that we sent to the neighbors' house have not come back.

Suggest a single constraint that might account for the instances of ungrammaticality.

3. For each of the following ungrammatical sentences indicate which of the constraints would explain its ungrammaticality. (20 points)

- *a. The girl whose we did not see father at the party cried all night.
- *b. Which dog did Rebecca sue the guy who shot?
- *c. That the student lost the book surprised me that he had borrowed from the library.

G O O D L U C K



RELEVANT TRANSFORMATIONAL RULES

Subject-HV Inversion

Q - NP - Tns(^Mhave) - X
 1 2 3 4
 ⇒ 1, 3 + 2, 0, 4 (Optional)

Affix Hopping

X - {^{Tns}en} - {^Mhave} - Y
 {ing} {be} √
 1 2 3 4
 ⇒ 1, 0, 3 + 2, 4 (Obligatory)

Passive

NP - Aux - V - NP - X
 1 2 3 4 5
 ⇒ 4, 2, *be* + *en* + 3, 0, 5 + *by* + 1

Agent Deletion

X - *by someone*
 1 2
 ⇒ 1, 0 (Optional)

Relative Clause Formation

X - [NP - [Y - NP - Z]] - W
 NP S S NP
 1 2 3 4 5 6
 Condition: 2 = 4
 ⇒ 1, 2, *that*, + 3, 0, 5, 6 (Obligatory)

Question Movement

Q - X - [Det Y] - Z
1 2 NP 3 NP 4
⇒ 1 + 3, 2, 0, 4 (Optional)

Q-Deletion

Q - Tns - X
1 2 3
⇒ 0, 2, 3 (Obligatory)

Extrapolation

[\bar{S}] - X
NP 1 NP 2
⇒ *it*, 2 + 1 (Optional)

To Insertion

X - *to* - [NP - Tns - Y] - Z
1 2 s 3 4 5 s 6
⇒ 1, 0, 3, 2, 5, 6 (Obligatory)

Identical-NP Deletion

NP - Aux V - [*for* - [NP - X]]
1 2 s 3 s 4 5 s s

Condition 1 = 4
⇒ 1, 2, 3, 0, 5 (Obligatory)

Complementizer Deletion

X - *for* - Aux - Y
1 2 3 4
⇒ 1, 0, 3, 4 (Obligatory)