PAPER 6 (DESCRIPTIVE LINGUISTICS)
APPLICATION OF PHRASE STRUCTURE RULES

The application of phrase structure rules will give the deep structure of the following sentence:

"Why wasn't he punished?"

The derivation of this sentence takes place in the following stages:

STAGE 1   S   (initial symbol)

STAGE 2   By applying the PS rule S----NP + Pred. phrase

                           S

                  NP   Pred. phrase

Now another string of PS rule will give stage 3.

        Pred. phrase----VG + NP + Adv.

STAGE 3   S

            NP   Pred. phrase

                  VG   NP   Adv.

By applying the PS rule VG----Aux + V, we get stage 4, i.e.

STAGE 4   S

        NP   Pred. phrase

            VG   NP   Adv.

        Aux.   V

The PS rule Aux. tense----(modal) + (perf.) + (prog.) will lead to stage 5.

STAGE 5   S

        NP   Pred. phrase

            VG   NP   Adv.

        Aux   V

        Tense

STAGE 6   S   (by the PS rule Tense - past/present)

NP   Pred. phrase

                              VG   NP   Adv.

                    Aux   V

                    Tense

                    Past
STAGE 7 (by the PS rule NP----(pred. det)-(det)-(quant.)-(Adj. phr.)-(class)-N
                              S

                    NP   Pred. phrase

                    N   VG   NP   Adv.

                              Aux   V   N

                              Tense

                              Past
STAGE 8   Lexical substitution (phrase marker 1)
                              S

          NP   Pred. phrase

          N   VG   NP   Adv.

                    Aux   V   N

                    Tense

                    Past

     Someone   punish   him   for some reason

The PM1(phrase marker 1) represents the deep structure of the sentence "Why wasn't he punished?" If the following T rules are applied:
1. Passivization 2. Agent deletion 3. Negation 4. Neg - contraction 5. Wh-substitution
6. Interrogation 7. Wh-frontation 8. Affix switch

we will get the deep structure. The application of these transformation is given below.
After the application of passivization, the PM1 is changed to PM2.

PASSIVIZATION   PM2
                                        S

NP   Pred. phrase

N   VG   Adv.

                    Aux   V   Prep. phr.

                Tense   Passive   prep   NP

                                                                  N

He   Past   be   en   punish   by   someone for some reason

                        AGENT DELETION   PM3
                                S

NP   Pred. phrase

N   VG   Adv.

                    Aux   V

            Tense   passive

He   past   be   en   punish   for some reason

                        NEGATION   PM4
                                S
NP   Pred. phrase

N   VG   Adv.

                    Aux   V

            Tense   Passive

                        neg
He   past   be   not en   punish   for some reason

                NEGATION CONTRACTION   PM5
                                S

NP   Pred. phrase

N   VG   Adv

                    Aux   V

              Tense   Passive

He   Past   ben't   en   punish   for some reason
                        WH - SUBSTITUTION   PM6
                        S
NP   Pred. phrase

N   VG   Adv

                    Aux   V

              Tense   Passive

He   Past   ben't   en   punish   why
                        INTERROGATION   PM7
                        S
              Aux   NP   Pred. phrase

    Tense   N   VG   Adv

                                        en   V

Past   ben't   he   punish   why

                    WH - FRONTATION   PM8
                    S

        Adv   Aux   NP   Pred. phrase

	Tense		N		VG	
						V
Why	Past	ben't	he	en		punish
		AFFIX - SWITCH				PM9

S

Adv		Aux	NP	Pred. phrase		
		Tense	N	VG		
	Past	ben't		en	V	
Why		wasn't	he		punished?	