CS-5340/6340, Written Assignment #1
DUE: Tuesday, September 6, 2016 by 11:00pm

1. (35 pts, $\frac{1}{2}$ pt per word) For each sentence below, label each word with its correct part-of-speech (POS) tag based upon the word's use in the sentence. Do not assign POS tags to punctuation marks.

   Choose from the following list of part-of-speech tags: **adjective** (ADJ), **adverb** (ADV), **article** (ART), **conjunction** (CONJ), **gerund** (GER), **infinitive "to"** (INF), **modal** (MOD), **noun** (NOUN), **particle** (PART), **preposition** (PREP), **personal pronoun** (PERPRO), **relative pronoun** (RELPRO), **verb** (VERB).

   For infinitive verb phrase constructions, label "to" as INF and the verb itself as VERB.

   NOTE: An easy way to show your part-of-speech tags is to append a slash and POS tag after each word. For example: "Natural/ADJ language/NOUN is/VERB fun/ADJ."

   (a) The presidential election will happen soon !
   (b) Excessive drinking can cause hepatitis .
   (c) I love to juggle and blow up balloons .
   (d) She turned down an invitation to go to the party .
   (e) Mary was hiking up the incredibly tall mountain that is so famous .
   (f) Investigators finally found a smoking gun which solved the mysterious crime .
   (g) She must drive far but will not complain .
   (h) He never gives up and no obstacles will stop him .

2. (20 pts) For each sentence below, indicate whether the main verb appears in an *active* voice verb phrase or a *passive* voice verb phrase.

   (a) The burglar has been taken to prison.

   (b) Adele will be singing at Carnegie Hall.

   (c) The horses are brushed every day.

   (d) The boy was chosen for the soccer team.

   (e) Twelve people were injured by the storm.

   (f) He has cooked a huge feast for her family.

   (g) Tom will have single-handedly eaten the entire pizza!

   (h) I have not slept in 24 hours.

   (i) The plane will be flown by a navy pilot.

   (j) The essay was written in red ink.

3. (15 pts) Answer the following questions with respect to the following short story. Each sentence has an identifier ($S\#$) that should be used to answer part d below.

> S1: John needed milk for his cereal.
> S2: He drove to a Kansas City grocery store that opens early.
> S3: John bought milk and also got Mary a coconut birthday cake.
> S4: John took out his wallet, which contained some cash.
> S5: But the money was not enough.
> S6: So John put the cake for Mary back on the shelf.
> S7: The cashier sold him a much cheaper birthday card instead.

(a) List all of the verbs that occur in an intransitive verb phrase construction.

(b) List all of the verbs that occur in a transitive verb phrase construction.

(c) List all of the verbs that occur in a ditransitive verb phrase construction.

(d) List all of the sentences that contain at least one relative clause. If no sentences contain a relative clause then answer "NONE".

(e) Show the internal noun phrase bracketing corresponding to the semantically correct interpretation of *"coconut birthday cake"* in $S3$.

(f) Show the internal noun phrase bracketing corresponding to the semantically correct interpretation of *"Kansas City grocery store"* in $S2$.

Question #4 is for CS-6340 students ONLY!

4. (12 pts) Consider the following four subcategorization frames:

NP
NP NP
PP(on)
PP(against)

For each verb below, list <u>ALL</u> of the subcategorization frames in the list above that should be associated with the verb. For each subcategorization frame that you list, provide a sentence that shows a usage of the verb for that exact subcategorization frame. (The verb can be used in any form, for example past tense is fine.) If a verb should not have ANY of these subcategorization frames, then give the answer *NONE*.

HINT: most of the verbs should have 0-2 of the subcategorization frames shown above.

(a) confront

(b) protect

(c) perch

(d) joke

(e) write

(f) swallow

(g) pretend

(h) choke

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