Chương 9

1) Using the Cn function described in section 9.4 compute the score of each of the senses of the word *bridge* in the five-word window "*the suspension bridge the construction*".

Giải

	with *bridge*/ STRUCTURE1	with *bridge*/ DENTAL-DEV37	in any window
teeth	1	10	300
suspension	200	1	2000
the	5500	180	500,000
dentist	2	35	900
total occurrences	5651	194	501,500

Cn(bridge / STRUCTURED, the) = (10^7 * 5500) / (5651 * 500 000) = 19.47

Cn(bridge / STRUCTURED, suspension) = (10^7 * 200) / (5651 * 2000) = 176.96

Score(STRUCTURED) = 19.47 * 176.96 = 3445.4112

Cn(bridge / DENTAL-DEV37, the) = (10^7 * 180) / (194 * 500 000) = 18.56

Cn(bridge / DENTAL-DEV37, suspension) = (10^7 * 1) / (194 * 2000) = 25.77

Score(DENTAL-DEV37) = 18.56 * 25.77 = 478.2912

2) Extend the grammar, lexicon, sense hierarchy and selectional restriction given in section 9.2 as necessary to appropriately interpret the following sentences:

a) *He gave the book to the college.*

b) *He knows the route to the college.*

Giải

a) (<PAST GIVE> g1 [AGENT <HE1>] [THEME <THE b1 (BOOK b1)>] [TO-POSS <The c1 (COLLEGE c1)]])

b) (<KNOW> k1 [AGENT <HE1>] [THEME <THE r1 (ROUTE r1)>] [TO-LOC <The c1 (COLLEGE c1)]])