### Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_

### Section:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Score:\_\_\_\_\_\_\_\_\_\_

### Fill in the Blanks

1. \_\_\_\_\_\_\_\_\_\_\_ P(k, d) 1 0.5 P(k, d, n) 1 1 n d k d k Figure 4.2: Logistic model without guessing (left) and with guessing (right) Elo model Elo model extends the logistic model to capture changing knowledge.
2. 4.2 \_\_\_\_\_\_\_\_\_\_\_ As we mentioned in the introduction to this chapter, the key to the eﬃcient practice is to provide the student with adequately diﬃcult questions.
3. All quasi facts about terms in sentence can be retrieved from the knowledge graph with the following simple SPARQL query: SELECT ?before ?term ?after WHERE { ?quasifact a \_\_\_\_\_\_\_\_\_\_\_ term-in-sentence ; smartoo:part-before-term ?before ; smartoo:part-after-term ?after ; smartoo:term ?term . }

### True or False

1. Knowledge Extraction and Representation @prefix rsrc: <http://dbpedia.org/resource/> @prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> @prefix dbpedia-owl: <http://dbpedia.org/ontology/> @prefix dbprop: <http://dbpedia.org/property/> @prefix foaf: <http://xmlns.com/foaf/0.1/> rsrc:Alan\_Turing rdf:type foaf:person ; dbpedia-owl:birthDate K. Yacef+02:00 ; dbprop:nationality British @en .
2. WP09 graph is great for a representation of simple facts (declarative knowledge), but it is useful to know about its limitations.

### Multiple Choices

1. I would also like to thank members of the Natural Language Processing Centre and \_\_\_\_\_\_\_\_\_\_\_ group for fruitful discussions, and all my friends who helped me to test the developed application and came up with a lot of great suggestions for future development.

a.)Carnegie-mellon university

b.) Natural language toolkit

c.) Adaptive learning

1. 3.3 \_\_\_\_\_\_\_\_\_\_\_ from Knowledge Graph .

a.)Confederate

b.) Smartoo framework prototype

c.) Creating exercises

1. 3.3 Creating Exercises from \_\_\_\_\_\_\_\_\_\_\_ .

a.)Knowledge graph

b.) Acm

c.) Artiﬁcial intelligence

1. ,Figure 2.1: Simple \_\_\_\_\_\_\_\_\_\_\_ graph 5 2.

a.)Rdf/xml

b.) Prefix

c.) Masarykova

1. , \_\_\_\_\_\_\_\_\_\_\_ 2.1 RDF Graph RDF1 graph is a collection of subject-predicate-object triples [SET09, p. 63].

a.)Rdf/xml

b.) Prefix

c.) Masarykova

1. , \_\_\_\_\_\_\_\_\_\_\_ Wrapper 1.6 SPARQLWrapper6 provides an interface to DBpedia public SPARQL endpoint.

a.)Carnegie-mellon university

b.) Natural language toolkit

c.) Adaptive learning

1. , \_\_\_\_\_\_\_\_\_\_\_ Lib 4.1 RDFLib7 is a Python library for working with RDF graphs.

a.)Confederate

b.) Smartoo framework prototype

c.) Creating exercises