

Below you can find the grading scheme for the exam of 2019, for the purpose of evaluating your answers to this practice exam.

Please be reminded that this year's exam will be different because it is an open-book exam.

Good luck with the preparations!

1a	2 for one vs multi, 1 for the right term in the right place, 1 for '0 or more'
1b	1 for mentioning/defining entities or IOB; 1 for mentioning one label per word; 1 for 'text = sequence/order/context'
2a	1 for mentioning frequency, 1 for small number of high-frequent items, 1 for large number of low-frequent items
2b	feature vectors with many zeroes (each vector only contains a few non-zero elements)
2c	1 for mentioning words as features, 1 for mentioning many zeroes, 2 for mentioning why (one doc has only small portion of all terms)
3a	2 for 'decrease', 2 for explanation. -1 for wrong example
3b	1 for description of stemming, 1 for yes, 1 for explanation (1 point if answer is no with correct explanation of common root)
3c	2 for answer (2), 3 for correct table with one insertion and one substitution
4a	2 for equation of kappa; 2 for Pr(a); 3 for Pr(e)
4b	Measured agreement equal to chance agreement (1 for 'agreement is random'; 2 for 'as if randomly assigned')
5a	1/4
5b	12
5c	$(2+1)/(15+12)$ (2 points without add-one smoothing)
5d	2 points for mention of zero probabilities multiplication; 2 for correct example (text with word that does not occur in training set)
6a	2 points for mentioning pre-trained language models; 2 points for explaining the transfer of knowledge
6b	Either pre-trained language model for Chinese biomedical texts or a large unlabelled collection of those texts (2 points for naming 1 of the 2 options)
7a	$R=0.4$; $P=0.5$; 3 points when reversed
7b	1 for correct answer (O); 1 for relevance/informativeness as motivation (words not in entity); 1 for class imbalance as motivation
8a	Michael (words that are ambiguous between entity and regular word are wrong; type ambiguity means entity type). 2 points for 'Michael Schur'
8b	Distant supervision or bootstrapping. 1 point for pattern-based relation extraction. 0 for co-occurrence based method (because question is about learning paradigm)
8c	1 point for use of knowledge base, 1 point for silver standard (automatic ground truth labelling), 1 point for feature/pattern learning, 1 point for generalization. 1 if co-occurrence based method is explained correctly
9a	1 for evaluation metric, 1 for recall-oriented, 1 for 4-grams
9b	2 for difference between unigrams and 4-grams; 2 for mentioning word order or word groups
10a	2 for function words; 2 for correct explanation (style vs topic)
10b	classifier; features/words; large/high/most
11a	1 for specific domain; 2 for control/restrict variation (1 point for 'synonym mapping')
11b	2 for control in the search interface; 2 for explanation of semantic gap