Started on	Monday, 27 November 2023, 12:20 PM
State	Finished
Completed on	Monday, 27 November 2023, 12:29 PM
Time taken	8 mins 46 secs
Grade	**9.00** out of 15.00 (**60**%)

Question **1**

Correct

Mark 3.00 out of 3.00

According to the assumptions made for the TransE model:

- the embedding vector t shall be close to h o r where o is the product of the corresponding elements h and r
- the embedding vector h+t should be close to the vector r
- the embedding vector r shall be close to h o t where o is the product of the corresponding elements h and t
- the embedding vector h+r should be close to the embedding vector t ✔

Your answer is correct.

The correct answer is:
the embedding vector h+r should be close to the embedding vector t

Question **2**

Correct

Mark 3.00 out of 3.00

TransE assumes that the embeddings of both entities and relationships are in the same space Rk

Select one:

- True ✔
- False

The correct answer is 'True'.

Question **3**

Incorrect

Mark 0.00 out of 3.00

The embedding vectors are

- [ ] sparse
- [x] dense ✔
- [ ] low-dimensional
- [x] high-dimensional ✖

Your answer is incorrect.

The correct answers are:
dense,

low-dimensional

Question **4**

Correct

Mark 3.00 out of 3.00

What type of relationship pattern that can occur in a knowledge graph is represented by the following expressions:

1. Eve is Paul's sister

and

2. Paul is Anna's parent

Based on 1 and 2:

3. Eve is Anna's aunt

- (●) composition ✔
- ( ) transitivity
- ( ) asymmetry
- ( ) symmetry

Your answer is correct.

The correct answer is:
composition

Question **5**

Incorrect

Mark 0.00 out of 3.00

Knowledge graphs generally contain true statements.

Other statements (not contained in the graph) can be considered:

- (●) false (according to the closed world assumption) but not missing ✖
- ( ) missing but not false (according to the closed world assumption)
- ( ) missing or false (according to the closed world assumption)

Your answer is incorrect.

The correct answer is:
missing or false (according to the closed world assumption)