

# Quiz 2

Started: Mar 12 at 22:14

## Quiz Instructions

General Instructions:

- 1) Duration of the quiz is 60 minutes
- 2) This quiz will be available from 12-March -2023, 7.00 PM till 13-March -2023, 7:00 PM

Question 1

1 pts

Following is the term count table for the two documents find  
tf for 'this ' in D1

D1	
Term	Term Count
This	1
Is	1
A	2
sample	1

D2

Term	Term count
------	------------

this 1

is 1

another 2

Example 3

☐ 2. 0.3

☒ 1. 0.2

☐ 4. 1

☐ 3. 0.4

## Question 2

1 pts

In question answering module of Siri, it needs to access which of the following to map from the semantic representation of the query :

☐ 2. Grammar

☐ 4. None of options

☒ 1. Structured data or sources about the query topic

☐ 3. Event tree

## Question 3

0.5 pts

Which of the following is NOT a type of lexical relationship in WordNet?

- ☐ 3. Hyponymy
- ☐ 2. Hypernymy
- ☒ 1. Orthography
- ☐ 4. Synonymy

**Question 4****0.5 pts**

Which of the following techniques is NOT commonly used in Question Answering systems?

- ☒ 3. Sentiment Analysis
- ☐ 4 Information Retrieval (IR)
- ☐ 1. Named Entity Recognition (NER)
- ☐ 2. Dependency Parsing

**Question 5****0.5 pts**

Google Multi language translator uses following for translation:

- ☒ 1. Neural Network
- ☐ 3. SMT
- ☐ 4. None of above
- ☐ 2. IBM Watson model

**Question 6****0.5 pts**

Smoothing algorithms provide

- ☐ 3. Word Embeddings
- ☐ 4. parse tree
- ☐ 2. Entropy
- ☒ 1. A more sophisticated way to estimate the probability of n-grams.

### Question 7

0.5 pts

What is a common technique used in Question Answering systems to identify the answer to a question?

- ☐ c) Dependency Parsing
- ☒ a) Named Entity Recognition
- ☐ d) Sentiment Analysis
- ☐ b) Part-of-Speech Tagging

### Question 8

0.5 pts

Which can be a Component of Ontology:

- ☐ 4. Web location
- ☐ 2. Corpus size
- ☒ 1. Name to explain the concept related to domain
- ☐ 3. Filename

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# Quiz 2

Started: Mar 12 at 23:10

## Quiz Instructions

General Instructions:

- 1) Duration of the quiz is 60 minutes
- 2) This quiz will be available from 12-March -2023, 7.00 PM till 13-March -2023, 7:00 PM

### Question 1

1 pts

XML Schema and a word file is following type of Data:

- ☐ 3. Structured and Semi structured
- ☐ 2. Qusi -structured and Structured
- ☐ 4. Heterogeneous
- ☒ 1. semi structured and unstructured

### Question 2

1 pts

Following is the term count table for the two documents find

tf for 'this ' in D1

D1

Term	Term Count
------	---------------

This 1

Is 1

A 2

sample 1

D2

Term	Term count
------	------------

this 1

is 1

another 2

Example 3

☒ 1. 0.2

☐ 4. 1

☐ 3. 0.4

☐ 2. 0.3

### Question 3

0.5 pts

In the 'Term incidence Matrix' rows represent :

☐ 3. Probabilities of occurrences of word in document

- ☐ 4. None of above
- ☒ 1. No of Documents
- ☐ 2. No of terms

**Question 4****0.5 pts**

What is Word Alignment Related to SMT?

- ☒ 3. Shows mapping between words in one language and the other.
- ☐ 1. Phrase Dictionary.
- ☐ 2. No of words in sentence
- ☐ 4. Probability of occurrence of particular word in sentence

**Question 5****0.5 pts**

Which of the following is a key component of Statistical Machine Translation?

- ☐ B) Neural Networks
- ☐ A) Hand-crafted rules
- ☐ C) Expert knowledge
- ☒ D) Probability models

**Question 6****0.5 pts**



In the Semantic web ontology, what is the superclass of the concept "City"?

- ☐ C) Province
- ☐ B) Region
- ☐ A) Country
- ☒ D) Settlement

### Question 7

0.5 pts

What is the name of the algorithm used in most question-answering systems?

- ☒ d) Transformer-based models
- ☐ b) Decision Trees
- ☐ a) Linear Regression
- ☐ c) Support Vector Machines (SVM)

### Question 8

0.5 pts

Affective lexicons can be built by hand, which is the method used to label the affective content of each word.

- ☒ 2. Crowd sourcing
- ☐ 3. Unsupervised learning
- ☐ 4. None of above
- ☐ 1. Supervised learning

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# Quiz 2

Started: Mar 12 at 22:27

## Quiz Instructions

General Instructions:

1) Duration of the quiz is 60 minutes

2) This quiz will be available from 12-March -2023, 7.00 PM till 13-March -2023, 7:00 PM

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### Question 1

1 pts

Following is the term count table for the two documents find

tf for 'this ' in D1

D1

Term	Term Count
------	------------

This	1
------	---

Is	1
----	---

A	2
---	---

sample	1
--------	---

D2

Term	Term count
------	------------

this	1
------	---

is 1

another 2

Example 3

☐ 2. 0.3

☒ 1. 0.2

☐ 4. 1

☐ 3. 0.4

## Question 2

1 pts

In question answering module of Siri, it needs to access which of the following to map from the semantic representation of the query :

☐ 3. Event tree

☐ 4. None of options

☒ 1. Structured data or sources about the query topic

☐ 2. Grammar

## Question 3

0.5 pts

Which of the following techniques is NOT commonly used in Question Answering systems?

☒ 3. Sentiment Analysis

☐ 1. Named Entity Recognition (NER)

☐ 2. Dependency Parsing

☐ 4 Information Retrieval (IR)

#### Question 4

0.5 pts

What is citation form?

- ☐ 2. Tokens
- ☐ 3. Lexicons
- ☐ 4. Document frequency
- ☒ 1. used to represent a lexeme

#### Question 5

0.5 pts

RDF (related to web ontology) help us in the following:

- ☐ 4. None of the above
- ☐ 3. Get the probability of word
- ☒ 2. Tool to describe web resources
- ☐ 1. Converting one language to another.

#### Question 6

0.5 pts

In the Semantic web ontology, what is the superclass of the concept "City"?

- ☐ A) Country
- ☐ B) Region
- ☐ C) Province

☒ D) Settlement

### Question 7

0.5 pts

What is the name of the algorithm used in most question-answering systems?

- ☐ b) Decision Trees
- ☐ c) Support Vector Machines (SVM)
- ☒ d) Transformer-based models
- ☐ a) Linear Regression

### Question 8

0.5 pts

Which of the following techniques is NOT commonly used in sentiment analysis in NLP?

- ☒ 4. Discrete Fourier Transform
- ☐ 2. Machine learning-based classification
- ☐ 3. Rule-based analysis
- ☐ 1. Lexicon-based analysis

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# Quiz 2

Started: Mar 12 at 21:54

## Quiz Instructions

General Instructions:

1) Duration of the quiz is 60 minutes

2) This quiz will be available from 12-March -2023, 7.00 PM till 13-March -2023, 7:00 PM

### Question 1

1 pts

Candidate 1	the	the	the	the	the	the	the
candidate 2	the	cat	is	mat	the	on	
reference	the	cat	is	on	the	mat	

Find the precision for candidate 1 and candidate 2 in the above translation.

☐ 2. 0.4 ,0

☐ 3. 0.5,0.5

☒ 1. 2/7, 1

☐ 4 . ,8

### Question 2

1 pts

In question answering module of Siri, it needs to access which of the following to map from the semantic representation of the query :

☒ 1. Structured data or sources about the query topic

- ☐ 4. None of options
- ☐ 2. Grammar
- ☐ 3. Event tree

**Question 3****0.5 pts**

Which of the following is NOT a type of lexical relationship in WordNet?

- ☐ 2. Hypernymy
- ☒ 1. Orthography
- ☐ 4. Synonymy
- ☐ 3. Hyponymy

**Question 4****0.5 pts**

In the ' Term incidence Matrix ' rows represent :

- ☐ 3. Probabilities of occurrences of word in document
- ☐ 4. None of above
- ☐ 2. No of terms
- ☒ 1. No of Documents

**Question 5****0.5 pts**

RDF (related to web ontology) help us in the following:






- ☒ 2. Tool to describe web resources
- ☐ 1. Converting one language to another.
- ☐ 4. None of the above
- ☐ 3. Get the probability of word

**Question 6****0.5 pts**

What is a common technique used in Question Answering systems to identify the answer to a question?

- ☐ b) Part-of-Speech Tagging
- ☐ c) Dependency Parsing
- ☒ 
- ☐ a) Named Entity Recognition

**NER - is the correct answer**

**Question 7****0.5 pts**

Smoothing algorithms provide

- ☒ 1. A more sophisticated way to estimate the probability of n-grams.
- ☐ 2. Entropy
- ☐ 3. Word Embeddings
- ☐ 4. parse tree

**Question 8****0.5 pts**

Affective lexicons can be built by hand, which is the method used to label the affective content of each word.

- ☐ 4. None of above
- ☐ 3. Unsupervised learning
- ☒ 2. Crowd sourcing
- ☐ 1. Supervised learning

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# Quiz 2

Started: Mar 12 at 22:39

## Quiz Instructions

General Instructions:

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### Question 1

1 pts

Following is the term count table for the two documents find  
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D1

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This	1
Is	1
A	2
sample	1

D2

Term	Term count
------	---------------

this 1

is 1

another 2

Example 3

☒ 1. 0.2

☐ 4. 1

☐ 3. 0.4

☐ 2. 0.3

## Question 2

1 pts

In question answering module of Siri, it needs to access which of the following to map from the semantic representation of the query :

☐ 2. Grammar

☐ 4. None of options

☒ 1. Structured data or sources about the query topic

☐ 3. Event tree

## Question 3

0.5 pts

In the ' Term incidence Matrix ' rows represent :

- ☒ 1. No of Documents
- ☐ 4. None of above
- ☐ 2. No of terms
- ☐ 3. Probabilities of occurrences of word in document

**Question 4****0.5 pts**

Which of the following is NOT a type of lexical relationship in WordNet?

- ☐ 3. Hyponymy
- ☐ 2. Hypernymy
- ☐ 4. Synonymy
- ☒ 1. Orthography

**Question 5****0.5 pts**

Which of the following is not a type of Translation Model used in Statistical Machine Translation?

- ☐ 1. Word-Based Model
- ☒ 4. Semantic-Based Model
- ☐ 2. Phrase-Based Model
- ☐ 3. Syntax-Based Model

**Question 6****0.5 pts**

What is a common technique used in Question Answering systems to identify the answer to a question?

- ☐ b) Part-of-Speech Tagging
- ☐ c) Dependency Parsing
- ☐ d) Sentiment Analysis
- ☒ a) Named Entity Recognition

### Question 7

0.5 pts

Which of the following techniques is NOT commonly used in sentiment analysis in NLP?

- ☐ 1. Lexicon-based analysis
- ☒ 4. Discrete Fourier Transform
- ☐ 2. Machine learning-based classification
- ☐ 3. Rule-based analysis

### Question 8

0.5 pts

Which can be a Component of Ontology:

- ☐ 3. Filename
- ☐ 2. Corpus size
- ☒ 1. Name to explain the concept related to domain

☐ 4. Web location

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# Quiz 2

Started: Mar 12 at 22:27

## Quiz Instructions

General Instructions:

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Question 1

1 pts

Candidate 1	the	the	the	the	the	the	the
candidate 2	the	cat	is	mat	the	on	
reference	the	cat	is	on	the	mat	

Find the precision for candidate 1 and candidate 2 in the above translation.

☒ 1. 2/7, 1

☐ 2. 0.4 ,0

☐ 4 . ,8

☐ 3. 0.5,0.5

Question 2

1 pts

Following is the term count table for the two documents find

tf for ‘this ‘ in D1

D1



Term	Term Count
This	1
Is	1
A	2
sample	1
	D2
Term	Term count
this	1
is	1
another	2
Example 3	
<div><div></div><div>2. 0.3</div></div>	
<div><div></div><div>3. 0.4</div></div>	
<div><div><div></div></div><div>1. 0.2</div></div>	
<div><div></div><div>4. 1</div></div>	

Question 3	0.5 pts
<p>What is citation form?</p> <div></div>	

- ☒ 1. used to represent a lexeme
- ☐ 4. Document frequency
- ☐ 2. Tokens
- ☐ 3. Lexicons

**Question 4****0.5 pts**

Which of the following is a key component of Statistical Machine Translation?

- ☐ B) Neural Networks
- ☐ C) Expert knowledge
- ☒ D) Probability models
- ☐ A) Hand-crafted rules

**Question 5****0.5 pts**

RDF (related to web ontology) help us in the following:

- ☐ 3. Get the probability of word
- ☒ 2. Tool to describe web resources
- ☐ 1. Converting one language to another.
- ☐ 4. None of the above

**Question 6****0.5 pts**

Which can be a Component of Ontology:

- ☐ 2. Corpus size
- ☒ 1. Name to explain the concept related to domain
- ☐ 3. Filename
- ☐ 4. Web location

**Question 7****0.5 pts**

What is Polysemy?

- ☒ 1. many possible meanings for a word or phrase.
- ☐ 3. Same meaning of two different word
- ☐ 4. None of above
- ☐ 2. Opposite meaning words

**Question 8****0.5 pts**

What is the name of the algorithm used in most question-answering systems?

- ☒ d) Transformer-based models
- ☐ c) Support Vector Machines (SVM)
- ☐ b) Decision Trees
- ☐ a) Linear Regression

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