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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Introduction to Large Language Models (LLMs)
(course)



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Course outline

About NPTEL ()

How does an NPTEL online course work? ()

Week 1 ()

- Lec 01 :
Introduction and
Recent
Advances (unit?
unit=18&lesson
=19)

- Lec 02 :
Introduction to
Natural
Language
Processing
(unit?
unit=18&lesson
=20)

Week 1 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2025-02-05, 23:59 IST.

Assignment submitted on 2025-01-20, 22:55 IST

1) Based on Distributional Semantics, which of the following statements is/are true?

1 point

- (i) The meaning of a word is defined by its relationship to other words.
(ii) The meaning of a word does not rely on its surrounding context.

- ☐ Both (i) and (ii) are correct
☐ Only (ii) is correct
☒ Only (i) is correct
☐ Neither (i) nor (ii) is correct

No, the answer is incorrect.

Score: 0

Accepted Answers:

Neither (i) nor (ii) is correct

2) Which of the following words have multiple senses?

1 point

- ☒ light
☒ order
☒ letter
☒ buffalo

Yes, the answer is correct.

Score: 1

Accepted Answers:

light
order
letter
buffalo

3) Consider the following sentences:

1 point

● Lecture
Materials (unit?
unit=18&lesson
=22)

● Feedback Form
(unit?
unit=18&lesson
=27)

● Quiz: Week 1 :
Assignment 1
(assessment?
name=21)

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

Year 2025
Solutions ()

Sentence 1: Amit forgot to set an alarm last night.

Sentence 2: Amit woke up late today.

Does Sentence 1 entail Sentence 2?

- ☒ True
☐ False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

4) What issues can be observed in the following text?

1 point

On a much-needed #workcation in beautiful Goa. Workin & chillin by d waves!

- ☐ Idioms
☒ Non-standard English
☐ Tricky Entity Names
☒ Neologisms

Yes, the answer is correct.

Score: 1

Accepted Answers:

Non-standard English

Neologisms

5) Consider the following sentences:

1 point

Sentence 1: The bats flew out of the cave at sunset.

Sentence 2: Rohan bought a new bat to practice cricket.

Question: Does the word "bat" have the same meaning in both sentences?

- ☐ Yes
☒ No

Yes, the answer is correct.

Score: 1

Accepted Answers:

No

6) Which of the following statements is/are true?

1 point

- ☐ Apple is a hypernym of fruit.
☒ Leaf is a meronym of tree.
☒ Flower is a holonym of petal.
☒ Parrot is a hyponym of bird.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Leaf is a meronym of tree.

Flower is a holonym of petal.

Parrot is a hyponym of bird.

7) _____ deals with word formation and internal structure of words.

1 point

- ☐ Pragmatics
☐ Discourse
☐ Semantics

☒ Morphology

Yes, the answer is correct.

Score: 1

Accepted Answers:

Morphology

8) Consider the following sentences:

1 point

Sentence 1: Priya told Meera that she had completed the report on time.

Sentence 2: Meera was impressed by her dedication.

Which of the following statements is/are true?

- ☐ In Sentence 1, "she" refers to Meera.
- ☒ In Sentence 1, "she" refers to Priya.
- ☒ In Sentence 2, "her" refers to Priya.
- ☐ In Sentence 2, "her" refers to Meera.

Yes, the answer is correct.

Score: 1

Accepted Answers:

In Sentence 1, "she" refers to Priya.

In Sentence 2, "her" refers to Priya.

9) In semantic role labelling, we determine the semantic role of each argument with respect to the _____ of the sentence. **1 point**

- ☐ noun phrase
- ☐ subject
- ☒ predicate
- ☐ adjunct

Yes, the answer is correct.

Score: 1

Accepted Answers:

predicate

10) Which of the following statements is/are true?

1 point

(i) Artificial Intelligence (AI) is a sub-field of Machine Learning.

(ii) LLMs are deep neural networks for processing text.

(iii) Generative AI (GenAI) involves only Large Language Models (LLMs).

- ☐ Only (i) and (ii) are correct
- ☒ Only (ii) is correct
- ☐ Only (ii) and (iii) are correct
- ☐ All of (i), (ii), and (iii) are correct
- ☐ Neither (i), (ii), or (iii) is correct

Yes, the answer is correct.

Score: 1

Accepted Answers:

Only (ii) is correct