

Q1.)

What is Morphological Analysis of Words?

ANS.

Morphological Analysis is the study of internal structure of words by breaking them into smaller meaningful units called 'Morphemes'.

• It Identifies:

• Root Word — (stem)

• Suffixes

• Prefixes

} — (Affix)

Example:-

1. Unhappiness → Un + Happy + ness.

2. Playing → Play + ing.

⇒

TYPES OF Morphemes:

• Free morpheme (can stand alone) → book.

• Bound Morpheme (cannot stand alone) → -ing, un-

Importance:-

It helps in:

• NLP Tasks

• Text preprocessing

• Language Understanding.

→

Morphological analysis studies how words are formed and structured.

Q2.)

What is a word in Morphology?

ANS.

A Word is the smallest independent unit of language that carries meaning and can stand alone.

A Word may consist of:-

• One Morpheme



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## • Multiple Morpheme

### Examples:-

- Single Morpheme word : cat
- Multiple Morpheme word : eats (cat + s)

### Properties:

- Has meaning
- Can function independently in a sentence.

### Types:-

- simple Word → run
- Complex Word → runner
- Compound word → blackboard

→ A Word is a complete meaningful unit, possibly made of Morphemes.

Q3.) What is the Difference between a word and a Morpheme ?

ANS.	FEATURE:-	WORD:-	MORPHEME:-
1.	Definition	Smallest independent Unit.	Smallest Meaningful Unit.
2.	Independence	Can stand Alone	May or may not stand alone
3.	Example	"books"	"book", "s"
4.	Meaning.	complete Meaning	Partial Meaning.
5.	Usage.	Used in sentences	Used to form Words.

Q4.) Are Morphemes Phonemes? No.

ANS.

Morpheme:

- Smallest Meaningful Unit.
- Example : un, happy

Phoneme:

- Smallest sound Unit
- Has no meaning by itself.

Example:-

Word : Bat

- Phoneme : /b/ /a/ /t/
- Morpheme : bat

# Key Difference:-

	Feature	Morpheme	Phoneme
①	Meaning	Has meaning	No Meaning
②	Function	Build Words	Build Sounds
③	Example	" ing "	/i/ , /n/ , /g/

Hence, Morphemes and Phonemes are different Linguistic Units.

- Morpheme → meaning.
- Phoneme → sound.