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Q2) A) NLP :-

Natural language processing, or NLP is broadly defined as the automatic manipulation of natural language, like speech & text by software, the study of NLP has been grew out of the field of linguistics with the rise of component components :-

- a) Natural language understanding.
- b) Natural language generation.

Stage of NLP :-

a) Morphological & Lexical Analysis :-

It is a vocabulary that include its word & expression. It depicts analyzing, identifying & description of structure of words. It include dividing a text into paragraphs, words & the sentences.

b) Semantic Analysis :-

Semantic Analysis is a structure created by the syntactic analyzer which assigns meanings. The component transfer linear sequence of word into structures. It shows how the words are associated with each other.

ex. "colorless green idea." This word would be rejected by semantic analysis as colorless here, green doesn't make sense.

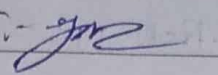
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c) Pragmatic Analysis:-

Pragmatic analysis deals with the overall communicative & social content & its effect on interpretation. It mess abstracting or deriving the meaningful use of language in situations. In the analysis, the main focus is always on what was said is reinterpreted on what is meant. eg. "close the window?" should be interpreted as a request instead of an order.

d) Syntax analysis:-

The words are commonly accepted as being the smallest units of syntax. The syntax refers to the principles & rules that govern the sentence structure of any individual language. Syntax focuses about the proper ordering of words which can affect its meaning. This involves analysis of the word in a sentence by following the grammatical structure of the sentence. The word are transformed into the structure to show how the words are related to each other.

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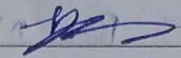
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e> Discourse Integration:-

It means a sense of the context.
the meaning of any single sentence
which depends upon those sentences.

It also considers the meaning of
following sentence.

ex the word "that" in the sentence
"He wanted that" depends upon the
prior discourse context.