	LINDOX
QI.	Explain DEAS alwayphous for klompox
	World.
->	
	1) performance Measure! - + 100 for grabbling goal and Coming
	TOLLE TO STUT
	200 it player is killed
	1 per action.
	10 for using drown.
	ii) Environment:
	- Empty Rooms - Booms with WUMPUS
	- Pooms neighbouring to wompus which are
	smella.
	- Posses ill by Homless Dits.
	- Proms neighbouring with bottomless pits
	which are see Esp.
	- Room with gold which is glitery
	- Arrow to Shrot WUMPU)
	iii) sentore (assuming Robotic Agent)
	- Camera to get the view.
	- odour sensor to smell.
	- Audio Sensor to listen 18 Scree of
	bump.
	(v) Fractors (assuming Robotic Agent)
	- Motor to move lest right.
	- Robot am to grab.
	- Robot mechanism to Short arrow

-

wumpus world agent has following characters. a) fully observable. 6) Otherministics. d) Discoete. e) Single Agent. Explain Various elements of Cognitive System Computing with goal of more accurate models of how human brain mind sever, reasons, and responds to stimulus. @ Generally, terms Cognitive Computing is used to over to new hardware and for Software flat mimic following functioning human brain thereby improving human decision making Cognitive Computing applications links data Analysis of adaptive page. 1.e Adaptive user interface to adjust content for pasticular type of Andrenes. a) Interactive!-- They may interact easily with were So that those users can define their needs Comfortably they may also interact with other processors devices of cloud Senices as well as with people.

5) Adaptiv :-- They may be engineered to feed on dynamic data in real time. They may learn as information, changes and as goals of requirements evolve. they may resolve ambiguity and tolerate unpredictability behaviours. c) Contexual: Contexual elements such as nearing Syntau, location, appropriate domain etc.
d) Iteractive: They may used indefining a problem by asking questions or finding additional Source input if problem statement is in complete.

White note on language Model. O Goal of language model is to

Compute probability of token (eg. Sentence

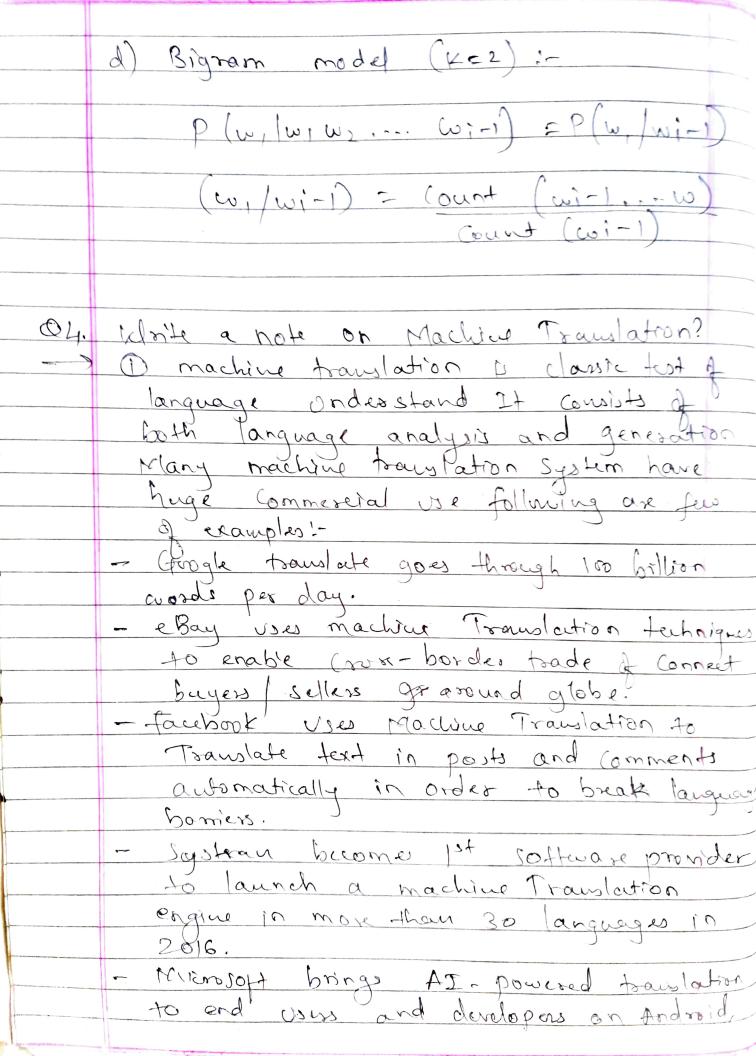
or Sequence of words) are usefull in

many different NPI Applications.

(anguage model actually a grammar de a language of it gives probability of Sentence as sequence of works is $n(\omega) = p(\omega), \omega_2, \omega_3, \ldots \omega_n$ p(w) = p (w1, W2, w3, ... wn)

g 2f can also be used to find probability of next word in Sentenu: P(w1, w2) wy) 5) A model that computes either of there is language model.

* There are various language. Model available, a few are: - A process which is stochastic in nature is Said to have marker properly of Conditional probability of feeture states depends upon present stake, b) N- Grammodels!-- formally define models were Ken-1 as following. P (cos/w quis coi-1) c) Owigram model (K=D:p (w, cu, ... wn) = II p (w'i)







Tos, and Amazon fire, whether or not they have access to Internet. - In traditional Machine Translation system, build including a probablistic formulation Wing tourslation model p(f) petrained on parallel corpus and language model. P(e) trained on english compus. - It is obvious that this approach skips hundreds of impostant details regules a lot of Ruman feature engineering and is overall a Complex System.

Explain following terms's a) phonology:

The Study organizing Sounds

Systematically in an NLP (Natural language processing) system. D) Morphology:- It is study of Construction of words
from primitive meaning full units. - lexical Analysis:
- lexical & words and phrases in

language lexical Analysis deals with de Sentences. It divides paragraphs in Jentences, phrases and words. d) Syntatic Analysis:

- In this, sentences are passed as
noun, verbs, adjective and other posts of sentences. In this phase greammer of sentence is analyzed in order to get relationship, among different words in Sentences.

- 20: "mango eats me" will be rejuted
by analyzer. e). Iclord Sense disambigution:

Testa bethile using words that have more than one meaning we have to select meaning which makes most sense in Content: for egs we are typically given list of words associated word sences e.g. from diretionary or from an online Resource such as word net.