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	Assignment No-1B
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Explain various elements of cognitive system 22 Cognitive Computing is grew type of Computing with the goal of more a courrage models of how human Genraly the term congetive computity bused to refer to new hordware and for suffware that mhe the following Runctiony Software Hereby imprising human diston molety Computing Confert Par a partialar Lype offendence. a) Interactive - They may interact easily with user somet can be define their Compartable They may also interact Bred on dynamic dates in real time.
They may been as information charges and extract, contexual elements such as meaning syntems. 1) Interactive and Software- They new as in defining a problem by asking problems Stakenerto in incomplete

liste note language medel 23 The goal of a language model is to compute probliting of a taken eg, sot sentonce a requare of wind - Language model (cm) away agrammor of a longuage at it give the problishy of word that will follow. - from the mark vp ssumptions, we can formally define model where, K=n-1 Cas Pollowing

P(w, 1w, wz -... wi-1) Unigram model (K=1)  $p(\omega_1 \, \omega_2 \dots \, \omega_n) = \pi \, p(\omega_1)$ Bigram model ( $|c=z\rangle$ :  $p(wi/w, w_2 - ... w_{i-1}) = (pw_{i-1} - w_{i-1})$ (w, (wi-,)) = (ount (wi,, w) Count (wi-1)

QL. Write a note on machine Translation. machele translation is dastic test of language understood 71 Confun of both language quelish genration, very machese translation system have lunge commercial. · Goole Translate goes Horough 100 bilion · Ward perdag. · Packabook user (x7) to translate test impalle and burder trade to break languese basia. - System become The Ring Software provider To Lanuely barrier: microsoft brings AJ-poured branslation to end wers and developers Anidmid, ics, and Amron Pro In a modificial machine Transation to end words and developers. In a freelitimed machine Translation to end words and chivelopers on Annoid ios and Amzer fire . This abious That this approuch step is ut important déteils regures alor ct- human

Rs. Explain Hefollowing. a) phonology.

- It is the shudy of organizing counds:
in an NLP (natural large priceris) system b) morphology. It is a Shedy of construction ofwards from reauther whole. Lexical Analystite Words and phrase, in language smehure of sontince It disty the perraphs in sendent doids the paragraphs in Sentence. Joseph Syntatic Analysis He sentente are passed nown verb adjective and other sentence is and made merely . es word sense dismission - While using words that attrace merethan one reaunh behave select reamy which the also otwerd, a sociated wered