.C.E. Assignment NO:- 1B	(Page No. :
- Raigad	Date:
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	Assignment No:- IR	Politica (Palaca)
21)	Explain DEA	13414
-1	Explain PEAS JOSCRIPTORS FOR WUMPUS WOR	
	Performance measure	10_
	+100 for grabbing the goal and coming back	
-	-200 if the da	
-	Fre action	
-	-10 for using the arrow.	
	ii) Envisonment.	
-	Empty Rooms	
-	Room with wumpus	
-	Rooms neighbouring 1 1211	Hq-
-	Rooms neighbouring to wumpus which are Rooms with bottomless pits	~
-	Rooms neighbouring with bottomless pits wi	
	are breezy	sich
-	Room with gold which is glitery	
-	Arrow to shout the wumpus	
	iii) Sensor (assuming a robotic agent)	
-	Motor to move left right	
-	Robot arm to grap the sold	
-	Robot mechanism to shoot the array	
	The WUMPUS world agent has following	
	character;-	
0)	Fully observable b) peterminstics c) episod	ic
9)	Static e) Discrete F) single age	+

02 Explain various elements of Cognitive system regnitive computing is a new types of computing with the goal of more accurate models of how the human brain/mind senses reasons and responds to stimulus. Generally, the term cognitive computing is used to refer to new hardware and loo software that minic the following functioning of the human brain thereby improving human decision making Cognitive computing applications links data analysis and adaptive page display i.e. Adaptive user interfaces to adjust context for a particular type of audience. - following are elements at cognitive system: a) Intercutive: They may interact posily with users so that those users an define their needs comfortably. They may also interact with other processors, devices and cloud services, as well as with people b) Adaptive :- They may be engineered to feed on dynamic obtain real time, they may learn as information changes and as goals and requirements evolve. They may resolve ambiguity and tolerate un predictability behaviours. c) Contexual: They may understand identify and extract contexual elements such as meaning syntax, location, appropriate domain, ete d) Therative and state ful: They may aid in defining a problem by asking questions or finding additional source input if a problem

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	Statement is incomplete.
-	
13	write note on language model.
-	The goal of a language model is to compute
	a probability of a token (e.g. a sentence or
	sequence of word and are useful in many
	different NPI applications.)
•	language model (cm) actually a grammax of a
	language as it gives the probability of
	word that coll follow.
	In race of (cm) the probability of a sentence
	- It can also be used to find the probability
	of the next word in sentence:
	P(W3/W1, W2, W2, W4)
	- A model that computes either of these is
	language model.
	- There are various language model available,
	a) methods using markou assumption:
	- A process which is stochastic in nature,
	is said to have the markov properly
	if the conditional probability of future
	I state depends upon present state.
	- From the markov Assumptions, we can
	formally define model where kent as
	formally define model where k=n+ as following: - P(w,/w, wz w;-1)
	c) Unigram model (k=1):- P(\$ω,ω2,ωn)= = P(ω;)
	$P(\mathcal{F}\omega,\omega_2,\omega_n) = \overline{i} \Gamma(\omega_i)$

Bigram model (k=2):-P(ω,/ω,ω2...ω;-i)= P(ω; |ω;-1 (w, | w;-1) = Count (w;-1... w) Ou write a note on machine Translation: Machine Translation is classic test of language understand It consists of both language analysis and generation, many machine translation system have hage commercial use. Following are few of the examples: · Google Translate goes through 100 billion words per day e Bay uses machine translation techniques to enable cross-border trade and connect buyers / sellers around globe. Facebook uses (MT) to translate text in posts and comments automatically in order to break language bassiers. Systran became the first-software provider to launch a Neural Machine Translation engine in more than 30 language in 2016. · Microsoft brings AI - powered translation to end users and developers on Android, jos, and Amazon Fire. whether or not they have access to the Intend - In a traditional machine Translation system, parallel Coopus a collection of trees. is used to each of width is translated into one or more other languages than He original. For example : given the source language eg.

French and the target language e.g. English multiple statistical models needs to be build. including a probability formulation using the Rayesian Rule, a translation model P(f)e trained on parallel corpus, and a language model P(e) trained on the English Corpus - It is objous that this opproach skips hunderads of important details, requiresa lot of human feature engineering, and 13 Overall a complex system OS) Explain the following terms !a) Phonology!-- It is the Study of Organizing sounds systemati-Cally, in a NCP (Natural language Processing) System. b) morphology !-- It is a study of construction of words from primitive meaningful units. c) Lexical Analysis: Lexicon is the words and photoger in language lexical analysis deals with the recognition and identification of structure of sentence. It divides the paragraph in sentences, phrases and words d) Syntatic Analysis: - In Systatic Analysis the sentences are parsed as noun, verbs, adjective and other pasts of sentences. In this place the grammer of the Sentence is analyzed in order to get relationship among different words in sentences.

for example "Mango eats me" will be rejected by analyzer e) word sense disambigution: - while using words that have more than on meaning we have to select the meaning which makes the most sense in context for example, we are typically given a 1st of words associated word senses (eg. from a dictionary or from an online resource such as wordnet