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A Company		Subject - Artificial Intelligence.	
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K.G.C.E. Page No.: Karjat - Raigad Assignment-ol Date: 0.1 Explain PEAS des. Performance measure: Thoo for grabbing the goal and Comming back -200 if the player is killed. -lo for using account ii) Envisonment: Empty ocoms Room with WYMPS HIVE Rooms neighbouring to WYMPS which are Smelly. Rooms with bottomless pits. Rooms with gold which is glitery. iii) Sensons Cansuming a robotic agents. - Camera to get vices - odour Sensor to mass the search. audio Sensor to listen to the someon & bump. motors to move left & right. Robot arm to grab gold.
Robot mechanisum to shoot the armour. The klymps world agent has following characteristics: Fussy Fully observable b) Deterministics Episodie d) state e) Discrete

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(9.2)	Explain the various elements of congnitive
	System
	Cognitive Computing is arew type of Computing
	with the good good of more accurate models
	of how the human brain/mind senses, reasons
	Cognitive is used to refer to new how and for
	Slee that mimic the following functioning of
	the human brain Hereby improving human
	decision making regnitive computing applications links date analysis and adoptive page digital
	i.e adaptive user interfaces to adjust Content
	For a particular type of audience.
	following are the elements of cognitive System:-
	Totoractive - They may interact easily with users so that those users can define their
	needs com fortably.
	Adaptive - They may be engineered to feed
	on dynamic data in real time. They may learn os information changes and as goals &
	requirements envolve.
iii)	Contextual - They may understand identify &
	Syntax I coation, appropriate domain, etc
iv	Interactive & Stateful - They may be indefining
	a & problem by asking guestions source ilp
	IF problem State is incomplete.

Page No. :

Date:

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φ· 3)	klaite short note on language model:
	The goal of longuage model is to compute a probability of a token that is sentence or words and are useful in many different
	MPL applications.
	The case of (IM) the probability of a sentence as sequence of words is $P(w) = P(w_1, w_2, w_3)$
	- It can also be used to find the probability of
	the next word in Sentence: P(wslw, wo, wa w)
	- A model 15 that computes either of these is
741	a) Methods using markov Consumption: - a process which is stochastic in nature
	is said to have the markou property, if the conditional probability of future states.
24.	depends upon present state.
	from the markou assumption, we can formally
	défine models where $k = n-1$ as following:
	c) Unigram model (k=1)-
	a) Bigram model (k=2) -1
	$P(w_1 w_1w_2w_{i-1}) = P(w_i w_{i-1})$
	$C(\omega) \omega(-1) = (\text{ount}(\omega) - 1 - \cdots \omega)$
	Count (wi-1)

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	-	EXACEKACEKACEKACEKACEKACEKACEKACEKACEKACEK
- (0.4)		unite Short note on Machine Translation:
	-	machine translation is classic test of langer
	3 / 10	understand. It consist of both language analysis and generation. many machine
A		translation System have huge commercial
	11.	Choogle Translate goes though loo billion
igo y fin	1 2 4	ebay uses machine translation techniques
	41 5 7	to enable (moss-border trade and annect
	_	buyers / sellers around globe. facebook uses to translate text in post &
		Comments automatically in order to break
		language barriers.
	r.)	To traditional machine translation system, parallel corpus a collection of text is used to
		each width, is townslated into one or more
rll		eg. english immuliple Statistical models needs
a.\	1 13	to be build including a probabilion model
	-	P(F) & trained on the english corpus. It is abvious that this approach skips
		hundereds of important details, require a lot o
1		human realtime engineering les is averall a Complex System.
		C Cempler Oysiem.
- 2	1	E Said de la Contraction de la

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0.5)		Explain following terms:	1.56
	(a)	Phonology:	
		It is a Study of organizing Sourds &	systa-
		matically in an NIP natural language	
		processing system.	V Services
	h	Marphology:	100 m
	-	It is a study of consumption of words	from
		primitive meaningful units.	
		ा जानदी जा पारवताः ॥ १ वर्षे	
	(c)	word Sense disambigutioni	(, , , , , , , , , , , , , , , , , , ,
	y.,	while using woods that have more -	
		one meaning we have to select the mulich makes the most sense in context	
	1°	For example: we are typically given	and the same of th
		of words associated word senses, t	<u>. 9</u> .
		From a dictionary or from an anline	3
		resource such as word net.	
2 8 <u>5</u>			
	2		8.