Assignment No! - 1B

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	ROII NO! - 23
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	Sem :- 7/ I.T
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	0-1	Explain PEAS descriptions for wumpers would
	-	i) Pertormance measure
		+100 for grubbing the goal and coming back to start.
		-200 if the player is killed
		-1 per action
		- 10 for using the arrow.
1177		ii) Brviernment
		empty Rooms.
		Rooms neighboring The coumpus which are smelly
171111111111111111111111111111111111111		Rooms with bottomless pits.
		Rouns neighborusing with bottomless pirs which an
		brian cocco
	-	Rooms with gold which is glitting
	-	ANOW to shout the prowumpus.
		iii) seniors cossuming a volutic aggreets
	-	current to get the view
	_	udour sensor to press the stenen
	-	Audio sensor to listen to the screen and bump.
0		iv) ERRectors Cassuming a robotic agent)
		notor to more left night
		Robot arm to grub the gold
		Robot mechanism to shoot the amow.
		The wampers would agent has tollowing characters:
	a)	fully observable b) neterminatics of episodic
		J. T.
illeja.	0)	State el Distrete el Single agent
		Jaire agero

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		The state of the s
	Q-2	Explain vanious elements of lognitive system.
		committive computing is a new type of computing with
		The good of more accurate models of how the human
		bruin 1 mind senses, reasons, and responds to stimus
		cus generally , the H term lognitive comparing is used
		to refer to new handware and for gotterare mut minic
		The following puntioning of the numan bruin men by
		improving human desision making congnitive computing
		ng applicutions links down analysis and adaptive page
		diger le Adaptive user intertoces to adjust content for a
		particular type of audience.
		Following on elements of cognitive System:
		Interactive! - They many interact easily with users so
		that hose users can define their needs comfortably.
		They may also interest with other processors, devices and
		doud services as well as when people.
0	6	Adaptive 1- They may be engineered to teed on alynamic
	1	data in real time. They may learn as information
		changes and as gouls and requirements evolve. They
		may resolve ambiguity and toccate uppredictubility
		behavioures.
	en	Ionrexual: They may understand idenity and expect
	1	contenual dements such as meaning syntax, location
		appropriate domain etc.
	27	Therative and stateful: They may wid in defining a
	1	
		sources input it a problem sturement is incomplete.
		survive is in complete.

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	ce-3	contre note on Language model
		The goal of a language model is to compare a probabi-
		lity of taken ery a soutener on sequence of words
		and are weter many different upc applications.
	-	Language model com actually a granmar of a language
		as it gives me probability at word that will follow.
	-	In case of (IM) the probability of a scuttera as sequen
		of words is ! - P(w) = P(w, w, w, w, : wn)
		It can also be used to find the probability , of the
		next word in rentence p(ws1w1, w2, w3, wt)
	-	A model mut compacted a citter of men is language
		model (666666)
		Then are various language model available, a two orest
		methicals using marker assupption!
		A process which is stochastic in mature, is said to have
30.75		the mark or property if the conditional probability of
	63	Nogram models:
6		from the markor Assumptions, we can tollowing detind
		model when 1927 as tollowing.
		p(w1 1w1 w2 wi~1)
	c	
		p(6) 02 600) = TT p(00)
	97	Bignens model (K=2)!-
		p(w1/w1222 wini) = p(w1/win)
		(w, 1wi-1) = count (wi-1w)
		Count (wi-1)

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	Q-4	conite a note on machine manstation!
	-	Marchine Fransiation is dassic test of language understun
		It consists of both language analysis and generation.
		many machine translations system have huge commercial
		we tollowing are few of the examples!
		Google Brunsilare goes through 100 billion words perdag
	•	ebuy uses machine munsclution techniques to enable coss
		border toode and connest buyers I sallers around globe
		Pacebook uses (MT) to mandlate text inposh and comments
		alctomaticuly in order to break language barriers.
	9	545 them be come the first software provider to launch
		a Neural Machine Translation engine in more tran 30
		languages in 2016
	•	Microsoft briggs AI-powered translation to end wary
		and developers on Android , ios, and Amazon Fin,
		whether or not they have access to the Internet.
		In a maditional machine Translation system, paralel
•		compus a collection of trees is used to each of width is
		tourslated a into one & or non other language than
		The original for example given the source language eng.
		French and the tunget junguage eg. English, multiple
		stutistical models needs to be build, including a probable
		10 ties mula Di che toni de Ragesian Rule, ce truns
		a laural sage model Ole A tout and the samples comme
		a language model ples trained on the English Corpus
		improtant details requires a let of human peature
		onginening, and is orwall complex gystem.
100		Colon Salaria

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		The state of the s
	(S)	Explain the following terms:
	w	Phonology 1-
		It is the study of organizing sounds systematically
		in an NCP (natural, languay, nacessing, system.
	(0)	morphology!
A Falling		It is a study of construction of words from primiti-
		ve meaningful units.
		Lexilon Andlysis:
		Lexilian is the words and phrases in language, lexial
		analysis day with the rewgnition and identification of
		Structum of gentine Italivides the parriagraphs of in
		sevences, phruses and words.
	2)	Syntatic Analysis!
	_	In syntatic Analysis the sentences are pursued as
		noun verbs, adjective and one parts of sentences.
		In this phase the grummer of the sentence is and
		sed in order to get relationship among differently
		words in somences. for example, " mungo ent me"
		will be rejected by analyzer
	e)	word sense disambigution:
		while using words that have more than one meaning
		achan to select the meaning which makes the most
		sense in context. For example, we are typically give
		9 list of words associated word serves leg troma
		distinant or from an online resource such as
		word net.