Assignment Wo: 1B + Warre 5- Swril. G. Bhave + Roll No: 07 + Batch 3- II + Som :- BE/IT YII + Sulyect 3- XI DOS DOA Remark

81 Explain DEAS descriptors for workfus boords

> 12 Deformance measure

11+100 for equabling the goal and Coming

back to start:

-200 if the player is killed

-1 per caction

-10 for viving the carrow it Environment - Ecomply Mooms - Rooms with lowing to WV MOUS which are Smelly
- Rooms with bottomless fits:
- Rooms neighbowing with bottomless
fits which care briefly
- Rooms with gold which is glilery
- Avoices to Shoot the WUMPOS Iii) Sensors Cunsuming a violotic agent)

- Camera to get the View

- odur Sensor to smell the trash

- Audio Sensor to listen the Secreen & bump iv> E. Rutores Carsuming a violote agent)
- Motor to move left veight
- Rookot aum to grab the gold - Robot Meharism to Shoot the avois. The set WUMPUS world agent has following Characteristics.

as full obserable of Determinates as Episode

d> State es Dissorela of Single agent

PAGE NO.

DATE:

Explain Various elements & Cognitive system. Cognitive Computing is a consecret system occurred with the youl of more coccurate models of how the human brain! crimd senses, occasion & respond to Stemulus cremently. The term lognitive computing is listed to refer to mew hardware and for software the MIMIC the following functioning of the human train thosely infraving human decision making lognitive computing capplication links clate analysis and codaptive frage i. c. adaptive 2 compaining apparation with conference interface to adjust Confert for a farticular type of audience.

following are dements of Cognitive Interactive = They may interact cosily with define their inclus comfortably they users can comfortably they may also interact with cother processors, devices cand cloud sources.

Adaptive 3- They maybe engineered to food or dyname clate in realterne they may learn as information charges & goas and trequirement evolve they may behaviour. I talkrate unfreedutability

contextua :- They coman be undervaled, identify cand extract contempual, elements such as meaning syntax location; coffreshiate doman etc. Inherative can staleful :- They imay look in defining a problem by asking questions cor fincking cadditional sowice enfut if a froblem Statement is incomplete. D3 Write mote on language model.

The goal rola language model is to compute a probability of a token eg, a sentence cor a sequence of words & are useful in many different NPL cofflications. - language Mode (CM cachially as grammer cof a language as it gives the profability of a Sertence of that will follow.

- In case of the profability of a Sertence cas a sequence of words its - P(W)O(W, W, W)

- A mode that computs either cof these is long language model.

- There are famous language Model

Wallable:

1 Motherh wire March. 211. 14. 2 a> Methods using Markov assumption 3
- Methods using Markov assumption 3
- A process which is 5tochate in inature is

- Soud to be have the imarker property if the

conclitional probability of fact future state

depends whom present state.

b) W-gram Moders:
- from the Mover Assumption. We can
fournally define Moder where R= n-1 as
following.

P(W, I W. W. W. ... Wi-1) C> Uruguam cmodel  $(k=1)_{0}^{0}$ - $P(w_{1}w_{2}, w_{n}) = \overline{I}_{1}^{0}B(w_{1})$ B4 Woute a mole on Nachine Townsaction

Machine Transaction is classis test of
language understand It consist of both
language analysis and generations
imany inachine biansistation system have
huge commercial use following are
few of the cramples- Google translate your through 100 billion
looveds per day.
- Elay were imachine translation techniques
to enable exors forcer trace and
comments buyers! Sellers around globe
translate text in - Facebook Users (MT) to translate text in fosts comments cautomatically in Order in breaks language barriers.

- Vicrosoft brings AI- howered translation to and users cand developers on android I in they have access to linternet.

In a teachtional Machine Translation In a tractional Machine Translation

System parallel corpus a carector of

try is used to each of evolth is

translated into one cor more language,

than the original for example given

the source language of french and

targated language of English, multiple

statistical module needs to be builted

including a firobabilistic formulation using

the Regesion Rule.

It is obvious that, this approach ships

hundreds of important details, verquised a lot

of human Realtime originization, and is

overall as complex. System-05 Explain the following Terms:a) Phonology 5
- It is the Study of organizing Sounds

Systematically in can NEO (natival

Language Brocessing) System 6> Morphology 5-- It is a study of construction of words from frumitive meaningful writs E) Sexical Sinalysis 2-- Lexilon is the words and pharses in language lexical analysis deals with the reagnition and identification of Asuctive of Sortences Intives the paragraph in sortences & words.

In syntatic Amalysis 5Sim syntatic Amalysis the sentences on faved is moun, verbs, cadjectives & other fracts of sentences. In this share the grammer of the sentence is canalyzed in order to get irelationship camong different looveds in sentence for ex: Mango od me? will be subjected by vanalyzer.

E7 Word Sense disambiguation

- While using words that have more than an embaning we have to select the imeaning we have to select the imeaning which imakes the most sense in context for egs we care typically ignor which of words also calsociated word sense eg from a dutionary for from an online versource.

such as workened.