ASSignment no:- 1B
Name: Ketan Vijay Choudhaori
Roll no: 12
Ser Brunch: VII /IT
Subject AI
-

,

(21) Explain PEAS descriptor for Crumpus word
-) i) Perfornance Measure:
-) () Continue Masure
- + 100 for grabbing good and Comming book to Start 200 if player is Killed
1 Per action
10 for Using arreac
(i) Environment
- Empty rooms
- Room with Crutiples
- Room neighbouring to wunpus which are Souls
- Rooms with botton less fits
- 200ms neighbowing with bottonies pits which
are breezy
- Room with gold which is glittery
- Amor to Shoot WUMPW
iii) Sensor (assuming Robotic agent)
- Carriera to get the view
- Odour Sineor to Smell
- Audio Sensor to listen to Serven burp
iv) Frector (assuming mobotic agent)
- Motor to more left right
- Robot and to grad
- Robot Michanish to Shoot arrow
WMPUS Gorld agent has following Character:
a) fully Observable e) Single Cegent
1) Deterministic
c) Starte
6) Discrete

(2) Explain Carrows elements of Cognitive System
> 1) Cognitive Computing is new type of Computing
Crith ancel of More lacerate Models of how
human brain (mind Sences reasons and responds
to Stirelles.
2) Generally team Cognitive Computing 15 Osed to
refer to new hoordancese and lor spricing
that cimic following tunctioning of human brain
thereby improving human decision Making Cognitive
Computing applications links data Analysis of
adomptive Pege it. Adaptive User interface to
adjust Content for ferticulo- Type "Maknice
- Pollowing Core elements of Lognitive System.
a) interactive:
They may interest easily with user So, those
Oscar Can desine their needs Corofort ally
The New Glass Intercept with other processor
devices of Good Services as Cress as with
People
$(1 \land 1 \land 1!)$
b) Adaptive:
They may be engineered to Reed Ondynomic
date is real time They may learn as
information Change and as goods and
regrisements evalue.

() (ontextion: - They May understand identify or Extract Contextual elements Such as Magning Syntax location appropriente domain etc. d) Intercutive of State -They May Used in defining a Problem by asking questions or finding additional source infert if Problems Statement is incomplete

(03) Crite a note on language Model
-> 1) Crow of language model is to Compute Probability
Of token (eg. Sentence or Segunce of towns core
Vieter in Many different NPL application
2) language moder artually a Graninar of a language
as it gives probability of Good that will follow
3) in (ase of (Lou) Probability of a Sentence as
Seguence of Goods 13
P(w) = P(w1, Cv2, cv3, cvn)
4) It Can also be used to find probability of
Next word in Sentence (costa, cos, cos, cos, cos,
S) A model that Computer either of these i
Language model
Lungary
There are various Language model available afew
are:
a) Methods Ossing Markon assumption:
- Aprocess which is Stachespie in Macture is a said
no have marker property if Conditional Probability
Of future State defends upon present State
5) . (
5) M- Gran Models:
- Com Maria Ciri Dis and Conf
- From Marker assemblion are Can formary define Models Where K: N-1 as Rollows
Models where holows
P (C, (c, c, c, c, c, c, -1)
() Doisson Model (K-1)
() Unigran Model (K-1) $P(cr, cr, cun) = II P(cri)$
$\frac{1}{2}$

	d) Bigron model (K=2):-
	(N-2)
	P(a, la, coz coi-1) = P(ai/ai-1)
	(a, (coi-1) = (ount (cri-1a)
	Count (wi-cu)
	in the second of
4	
ty	

(94) Crite a note on Machine Translation
) Martin Translation 13 (lassic test of Canguage
Understand. It Consist of both language
analysis and generation many Mathine
+ ranslation System have hage Commenced Use
following are few of eg:
- Groupe Translate Goes through loo billion
Word Per day
- By use Marking translation techniques to enable
Cross-border trude & Connect buyers / Selies
grand globa
- facebook user Mouhine Translation to translate
text into Posts and Congrests autoration in
Order to breve lenguage barriers
- System because lot Software Probables to launch
a machine Translation engine in more than
30 languages in 2016-
- Milosoft brings AI-Powered translation to end
users and developers on Android 105 and
Arrazon whether or not they have access
to internet
- In Fraditional Machine Translation System
Parallel Cerpa a Collection of three is
Used to each or wilth is translated into
One or more other language than oxiginal
eg: - Given Source language
es: Retrieve à to language en english.

(15) Explain polioning tems:
) () Plan
-) a) Phonology:
- It is Study of organizing Solunds Systems
aticuly in an NLP (Maturas language processing)
System
5) Morphology:
It is study of Construction of Gronds from Primitive rearighm units
Primitive Meanighu Units
C) Lexical Analyssis-
- Lexical analysis is Grords and Phrase in language
Lexical Analysis deals with recognition and
identification of Structure of Sentences It
divides frogress in Sentence Phress and
Cords  1) S. Arbir Onellini
J) Syntatic Analysis:  - In this Sentences are forsed as nown verbs
adjective and other fairs of Sentences In
this Phase grammer of sentence is analysis
In order to Set oglectionship among different
Gords in Sentences
eg:- margo eats me : ailibe register by
andyees
() Good Sense disansigution
- Grile Using Coords that have more than one
Meaning Cre hours to Select Meaning which
Make Mark Sense in Context
Foreg: - are are typically given list of arms Sense
14. from didionary or from an alline
Resource Such as away net.