


Name:	
Enrolment No:	
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2020	
Course:	Natural Language Processing
Semester:	VIII
Course Code:	CSEG415
Time:	2 Hours
Programme:	B TECH (CSE)LLB(CL)/ (IPR)
Max. Marks:	60
Instructions:	(i) There are 60 MCQs in this exam. (ii) No Negative marking

Which phase of NLP finds meaning of sentences	syntax analysis	Incorrect	semantic analysis	Correct	phonetic knowledge	Incorrect	pragmatic knowledge	Incorrect
Sentence is related with preceding sentence in	syntax analysis	Incorrect	semantic analysis	Incorrect	discourse knowledge	Correct	phonetics knowledge	Incorrect
Which of the following is free morpheme	books	Incorrect	redo	Incorrect	Bounded	Incorrect	drink	Correct
Which phase assigns nouns, pronouns, verbs, adjectives etc. to words in sentences	syntax analysis	Incorrect	POS Tagging	Correct	phonetic knowledge	Past	stemming	Incorrect
Conversion of 'Went' into 'Go' is example of	lemmatization	Correct	stemming	Incorrect	pragmatics	Incorrect	phonetics	Incorrect
Which NLP application converts one natural language into other natural language	Opinion Mining	Incorrect	Text summarization	Incorrect	document classification	Incorrect	Machine Translation	Correct
Which of the following is not used for evaluating NLP systems	average	Correct	precision	Incorrect	recall	accuracy	onJMS()	Incorrect

Search Engine response in Natural Language is	NLU,NLG, NLP	Incorrect	NLG	Correct	NLU	Incorrect	NLP,N LG	Incorrect
Pragmatics is related to	Context	Correct	syntax	Incorrect	grammar rules	Incorrect	discourse analysis	Incorrect
In, S-> NP VP what is the meaning of NP	Null Phrase	Incorrect	None Phrase	Incorrect	Noun Phrase	Correct	Null Phrase	Incorrect
Which of the following does not contain suffix	unhappy	Correct	playing	Incorrect	reading	Incorrect	books	Incorrect
How to make coffee' sentence is example of	Montague Semantics	Incorrect	Procedural Semantics	Correct	Distributional Semantics	Incorrect	None of these	Incorrect
Which of following is not used in Distributional Semantics	C: Context	Incorrect	M:Matrix	Incorrect	E: Element	Correct	d:dimension reduction	Incorrect
Which of the following is not a distance measure?	Angular	Correct	Cosine	Incorrect	Manhattan	accuracy	Euclidean	Incorrect
Which type of frequency calculates whether word is rare or not	DF	Incorrect	MF	Incorrect	TF	Incorrect	IDF	Correct
When documents are most similar?(Angles in degrees)	Cos90	Incorrect	Cos45	Incorrect	Cos0	Correct	Cos60	Incorrect
Log function is used in	MF	Incorrect	IDF	Correct	TF	Incorrect	CF	Incorrect
In Distributional Semantics, sentences are represented in the form of	Table	Incorrect	Discourse Knowledge	Incorrect	Phonetic	Incorrect	Vectors	Correct
Set theory is applied in	Procedural Semantics	Incorrect	Montague Semantics	Correct	Distributional Semantics	Incorrect	None of these	Incorrect
Document Frequency is	rare words in sentences	Incorrect	number of documents containing	Correct	number of terms in single	Incorrect	None of these	Incorrect

			term		e document			
In which parser, set of symbols are matched to right side of rules	Top-down parser	Incorrect	Tree parser	Incorrect	stack parser	Incorrect	bottom-up parser	Correct
Which parser uses left-most derivation	Tree parser	Incorrect	Top-down parser	Correct	stack parser	Incorrect	bottom-up parser	Incorrect
Full name of CYK parser is	Case-Young-Kasami	Incorrect	Cocke-Younger-Kasami	Correct	Cos-York-Kasami	Incorrect	Cos-York-Kasami	Incorrect
CYK Parser is type of	Top-down parser	Incorrect	Tree parser	Incorrect	stack parser	Incorrect	bottom-up parser	Correct
Scan, Predict and Complete are phases of	CYK Parser	Incorrect	Earley Parser	Correct	stack parser	Incorrect	None of these	Incorrect
When sentence is correctly parsed by using CYK parser	Only NP is in last cell'	Incorrect	Only 'VP' is in last cell	Incorrect	Only 'PP' is in last cell	Incorrect	S' is in last cell	Correct
AGR for 'He' is	1s	Incorrect	2p	Incorrect	1p	Incorrect	3s	Correct
Which is not semantic type?	Procedural	Incorrect	Montague	Incorrect	Parsing	Correct	Distributional	Incorrect
Backtracking feature exists in which type of parser?	Bottom-up	Incorrect	Bottom-down	Incorrect	Hybrid	Incorrect	Top-down	Correct
What is formula for calculating Cosine Distance?	$(A/B)/ A B $	Incorrect	$(A.B)/ A B $	Correct	$(A-B)/ A B $	Incorrect	$(A+B)/ A B $	Incorrect
A= Today is Holiday B= We are not going to park , Sentence ' Today is Holiday and We are not going to park' is represented by	$\neg A \rightarrow B$	Incorrect	$\neg B \rightarrow A$	Incorrect	$A^{\wedge} \neg B$	Correct	$B \rightarrow A$	Incorrect
Calculate Tax by using Basic Salary, HRA and other allowances'. Which semantic is reflected by this sentence.	Montague	Incorrect	Procedural	Correct	Hybrid	Incorrect	Distributional	Incorrect

Which of the following is not free morpheme?	redo	Correct	play	Incorrect	drink	Incorrect	eat	Incorrect
Porter algorithm is responsible for	It is an algorithm for word tokenization	Incorrect	It is an algorithm for sentence tokenization.	Incorrect	algorithm for parsing	Incorrect	Simple and efficient way to do stemming, removing affixes	Correct
What is example of bound morpheme?	eat	Incorrect	books	Correct	drink	Incorrect	play	Incorrect
\exists quantifier in predicate logic represents	Not	Incorrect	And	Incorrect	Existential	Correct	Or	Incorrect
Which AGR cannot be used for 'Do'	1p	Incorrect	3p	Incorrect	2p	Incorrect	3s	Correct
Questions like sentences' are represented by	s[-inv]	Incorrect	S[+inv]	Correct	S[]	Incorrect	None of these	Incorrect
Yes/No Questions' are	unbounded	Incorrect	bounded	Correct	not fixed	Incorrect	None of these	Incorrect
Wh Questions ' are	bounded	Incorrect	unbounded	Correct	S[]	Incorrect	None of these	Incorrect
In deterministic parser, which of the following is used	parse queue	Incorrect	parse stack	Correct	parse tree	Incorrect	parse graph	Incorrect
Which of the following are different phases of Natural language generation	Document realization only	Incorrect	Document planning, Micro Planning, Surface Realization	Correct	Micro planning only	Incorrect	None of these	Incorrect
Annotations for sentences are done in	Surface Realization	Correct	Document planning	Incorrect	sentence planning	Incorrect	micro planning	Incorrect

Similar types of sentences are combined in	bounded	Incorrect	aggregation	Correct	surface realization	Incorrect	None of these	Incorrect
In Natural Language Generation, 'First letter of name should be capital' is done in	bounded	Incorrect	Orthographical Strings	Correct	sentence planning	Incorrect	microplanning	Incorrect
PCFG' full form is	Proper context-free grammar	Incorrect	Pronoun context-free grammar	Incorrect	Probabilistic context-free grammar	Correct	None of these	Incorrect
if probability of S-> NP VP is 0.8 and probability of S-> NP is 0.1, ' I found a ball' sentence or 'Computer' sentence will be more likely in grammar	Computer	Incorrect	' I found a ball'	Correct	same probability	Incorrect	none of these	Incorrect
Book to Books is example of	Irregular morpheme	Incorrect	functional morpheme	Incorrect	stack	Incorrect	regular morpheme	Correct
catch to caught is example of	regular morpheme	Incorrect	functional morpheme	Incorrect	stack	Incorrect	Irregular morpheme	Correct
Sampling unit and frame are used in	Statistical based NLP	Incorrect	Probability based NLP	Incorrect	Count based NLP	Incorrect	Corpus based NLP	Correct
Archive is combination of _____ and Corpus is combination of _____ respectively	structured, readable documents	Incorrect	readable, structured documents	Correct	structured, structured documents	Incorrect	readable, readable documents	Incorrect
The main issue in corpus-based NLP is	count	Incorrect	Probability	Incorrect	Copyright	Correct	None of these	Incorrect

The difference in deterministic and statistical NLP is in terms of	count	Incorrect	functional morpheme	Incorrect	Probability	Correct	None of these	Incorrect
Full form of NLG is	Natural Language Genetic	Incorrect	Natural Language Generation	Correct	Natural Language Growth	Incorrect	None of these	Incorrect
Full form of NLU is	Natural Language Underestimate	Incorrect	Natural Language Understanding	Correct	Natural Language Union	Incorrect	None of these	Incorrect
Sentence plan is converted into sentence structure by	sentence planning	Incorrect	document planning	Incorrect	stack planning	Incorrect	text realization	Correct
Dot product is calculated in	Euclidean	Incorrect	Cosine	Correct	Manhattan	Incorrect	none of these	Incorrect
I went to Bank', which of the following ambiguity is present in this sentence	synatax	Incorrect	functional	Incorrect	procedural	Incorrect	semantic	Correct
In _____, meaning of sentence is used irrespective of context	readable form	Incorrect	logical form	Correct	syntax form	Incorrect	procedure form	Incorrect
In _____, output is in human readable form	NLU,NLG, NLP	Incorrect	NLG	Correct	NLC	Incorrect	None of these	Incorrect