Natural Language Processing B.tech VI Semester

Section-1	
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* Required	

MCQ and Short Answers

spelling rules are used to model the changes that occur in a word, usually when two morphemes combine is known as

- a. Morphotactics
- b. Orthographic rules
- c. Lexicon rules
- d. Finite-state transducer

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How many trigrams phrases can be generated from the following sentence, after performing following text cleaning steps:

- Stopword Removal
- · Replacing punctuations by a single space
- " <S> #The grass is always-greener on the other side of the @fence </S>"
- A) 3
- B) 4
- C) 5
- D) 6
- E) 7
- \bigcap A
- \bigcap E
- \bigcirc
- E

For the below question, In <your roll number> consider your own roll number. Calculate Bigram Probabability of "NLP </s>".

Consider a mini-corpus:

- <s> <your roll number> is a student of SVNIT </s>
- <s> Has <your roll number> opted for NLP</s>
- <s> Machine learning is must for NLP </s>

1/3

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Which of the below is true for stemming:

- a. map from foxes to fox; but might need to know that foxes is plural.
- b. map from foxes to foxs;
- map from foxes to fox; but might not need to also know that foxes is plural.
- d. map from foxes to foxes only;



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For the below question, In <your roll number> consider your own roll number. Calculate Bigram Probabability of "<s> <your roll number> ".

Consider a mini-corpus:

- <s> <your roll number> is a student of SVNIT </s>
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2/3

Tag Example Description Example Tag Description CC Coordin. Conjunction and, but, or SYM Symbol +,%,& CD Cardinal number one, two, three TO "to" DT Determiner a, the UH Interjection ah, oops EX Existential 'there' there VB Verb, base form eat VBD Verb, past tense FW Foreign word mea culpa ate IN Preposition/sub-conj of, in, by VBG Verb, gerund eating VBN Verb, past participle eaten П Adjective yellow JJR Adj., comparative bigger VBP Verb, non-3sg pres eat VBZ Verb, 3sg pres JJS Adj., superlative wildest LS List item marker 1, 2, One WDT Wh-determiner which, that MD Modal can, should WP Wh-pronoun what, who NN Noun, sing. or mass llama WP\$ Possessive whwhose NNS Noun, plural llamas WRB Wh-adverb how, where NNP Proper noun, singular IBM Dollar sign NNPS Proper noun, plural Carolinas Pound sign PDT Predeterminer all, both Left quote " or " ' or " POS Possessive ending 's Right quote PRP Personal pronoun I, you, he Left parenthesis [, (, {, < PRP\$ Possessive pronoun your, one's Right parenthesis],), }, >

Use the Penn Treebank tagset to tag each word in the following sentence.

He is a short, skinny guy with a long, happy, mean-looking face.

quickly, never

faster

fastest

a. He/PRP is/VBZ a/DT short/JJ ,/, skinny/JJ guy/NN with/IN a/DT long/JJ ,/, happy/JJ ,/, mean-looking/JJ face/NN

Comma

Sentence-final punc . ! ?

Mid-sentence punc :; ...

- b. He/PRP is/VBZ a/DT short/JJ ,/, skinny/JJ guy/NN with/IN a/DT long/JJ ,/, happy/JJ ,/, mean-looking/JJ face/JJ
- c. He/PRP is/VBZ a/DT short/JJ ,/, skinny/JJ guy/PRP with/IN a/DT long/JJ ,/, happy/JJ ,/, mean-looking/JJ face/NN
- d. He/PRP is/VBZ a/DT short/JJ ,/, skinny/JJ guy/PRP with/IN a/DT long/JJ ,/, happy/JJ ,/, mean-looking/JJ face/JJ

0	а
0	b
0	С

RB

RBR

Adverb

Particle

Adverb, comparative

Adverb, superlative

d

Write regular expressions for the following language:

the set of all strings with two consecutive repeated words

- a. ([a-zA-Z1-9]+" "+[a-zA-Z1-9])
- b. ([a-zA-Z]+)\s+" "+([a-zA-Z]+)\s
- c. $([a-zA-Z]+)\s+\1$
- d. ([a-zA-Z]+" "+[a-zA-Z])
- \bigcirc b
- \bigcirc

*

Which of the below is an example of stemming operation

- 1. was, am, are, is → be
- 2. helped, helps → help
- 3. troubled, troubling, trouble → trouble
- 4. friend, friendship, friends, friendships → friend
- 5. studied → studi
- 6. All of the above
 - A. 2, 3 & 4
 - B. 3 & 5
 - C. 6
 - D. 2, 3, 4 & 5
 - E. 2 & 5
- () A
- () E
- ()
- (E

Which of the given models can be used for the purpose of document similarity?

A) Training a word 2 vector model on the corpus that learns context present in the document

B) Training a bag of words model that learns occurrence of words in the document

C) Creating a document-term matrix and using cosine similarity for each document

D) All of the above

A

B

C

*
The end of the sentence is matched by and the start of the sentence is matched by
A. ^ and \$
B. \$ and ^ C. \\$ and .
D. \^ and \.
○ A
B
○ c
O D

!

In a HMM, the possible state transitions are from state JJ to states NN, VB, JJ and RB. Following are the known state transitions probabilities;

$$P(NN|JJ) = 1/4$$
. $P(VB|JJ) = 1/6$, and $P(JJ|JJ) = 1/4$.

What is the transition probability value of P(RB|JJ)?

- a) 1/4
- b) 1/2
- c) 1/5
- d) 1/3
- \bigcap t
- \bigcirc

*
The edit distance between two strings can be zero In which of the following cases?
a) b) When the lengths of the two strings are equal
b) When the two strings are equal
c) The edit distance can never be zero
d) When one string is a substring of another
O a
o b
O c
Od

Which of the below statements are true

- 1. The raw Co-occurrence matrices are usually sparse
- 2. one hot-vector a dense vector.
- A. Only 1
- B. Only 2
- C. Both 1 & 2
- D. None of the them
- \bigcirc A
- (E

What will be the cost of converting the word strength to trend using the minimum edit distance technique *

- 5
- O 6
- \bigcirc 7
- 4
- 0 3

N-grams are defined as the combination of N keywords together. How many bi-grams can be generated from a given sentence:

" <S> The grass is always greener on the other side of the fence "

A) 10

B) 13

C) 11

D) 12

A

B

C

Clear selection

For the below question, In <your roll number> consider your own roll number. Calculate Unigram Probabability of your roll number.

```
<s> <your roll number> is a student of SVNIT </s> <s> Has <your roll number> opted for NLP</s> <s> Machine learning is must for NLP </s>
```

Consider a mini-corpus:

1/3

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Which of the below is/are the examples of inflectional morphemes
ation
✓ s
ed ed
ing
*
"I saw bats " is which type of ambiguity?
A. Semantics
B. Lexical
C. Syntactic
D. None of the above
\bigcirc A



For the below question, In <your number="" roll=""> consider your own roll number. Calculate Unigram Probabability of word "NLP".</your>
Consider a mini-corpus: <s> <your number="" roll=""> is a student of SVNIT </your></s> <s> Has <your number="" roll=""> opted for NLP</your></s> <s> Machine learning is must for NLP </s>
2/17

What will be the cost of converting the word strength to trend using the minimum edit distance technique *
O 5
O 6
7
4
○ 3

!

You have created a document term matrix of the data, treating every tweet as one document. Which of the following is correct, in regards to document term matrix?

- Converting all the words in lowercase will <u>not</u> affect the dimensionality of the data
- 2. Normalization of words in the data will reduce the dimensionality of data
- Removal of stopwords from the data will affect the dimensionality of data
- A) Only 1
- B) Only 2
- C) Only 3
- D) 1 and 2
- E) 2 and 3
- F) 1, 2 and 3
- () A
- () E
- \bigcirc D
- E
- F

*

Tag	Description	Example	Tag	Description	Example
CC	Coordin. Conjunction	and, but, or	SYM	Symbol	+,%,&
CD	Cardinal number	one, two, three	TO	"to"	to
DT	Determiner	a, the	UH	Interjection	ah, oops
EX	Existential 'there'	there	VB	Verb, base form	eat
FW	Foreign word	mea culpa	VBD	Verb, past tense	ate
IN	Preposition/sub-conj	of, in, by	VBG	Verb, gerund	eating
JJ	Adjective	yellow	VBN	Verb, past participle	eaten
JJR	Adj., comparative	bigger	VBP	Verb, non-3sg pres	eat
JJS	Adj., superlative	wildest	VBZ	Verb, 3sg pres	eats
LS	List item marker	1, 2, One	WDT	Wh-determiner	which, that
MD	Modal	can, should	WP	Wh-pronoun	what, who
NN	Noun, sing. or mass	llama	WP\$	Possessive wh-	whose
NNS	Noun, plural	llamas	WRB	Wh-adverb	how, where
NNP	Proper noun, singular	IBM	\$	Dollar sign	\$
NNPS	Proper noun, plural	Carolinas	#	Pound sign	#
PDT	Predeterminer	all, both	66	Left quote	' or "
POS	Possessive ending	'S	33	Right quote	' or "
PRP	Personal pronoun	I, you, he	(Left parenthesis	[, (, {, <
PRP\$	Possessive pronoun	your, one's)	Right parenthesis],), }, >
RB	Adverb	quickly, never	,	Comma	,
RBR	Adverb, comparative	faster		Sentence-final punc	.!?
RBS	Adverb, superlative	fastest	:	Mid-sentence punc	: ;
RP	Particle	up, off			

Using the above Penn Treebank tagset, which of the following Word - POS TAG pair is incorrect.

... I/PRP am/VBP sitting/VBG in/IN Mindy/NNP 's/POS restaurant/NN putting/VBG on/RP the/DT gefillte/NN fish/NN ,/, which/WDT is/VBZ a/DT dish/NN I/PRP am/VBP very/RB fond/VB of/RP ,/

- a. gefillte/NN
- b. fond/VB
- c. is/VBZ
- d. on/RP

ľ	- 1	
l.		- C





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Which is/are adj-root1 that would include adjectives that can occur with un- and -ly
Big
Clear
✓ Нарру
Small Small
*
"Priya loves her mother, and Sita does too" is which type of ambiguity?
A. Semantics
B. Lexical
C. Syntactic
D. None of the above
A
ОВ
○ c
O D

*	
	Not Ram that merely contain the word Ram all strings that have both the word Ram and the word Krishna in them including Ram that merely contain the word Ram
a	
Op	
O c	
O d	
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