



Terna Engineering College

Department of Computer Engineering

FH-2022

Internal Assessment Test (IAT-1)

Subject:-Natural Language Processing [NLP] [DLOC]

Sem:-VIII (A, B, C)

Max. Marks: 20 Duration: 1Hr

Date:-03/02/2022 Time: 2:00 to 3:00

Note: Attempt all questions.

6. Draw neat diagrams wherever necessary.
7. All sub-questions of the same question should be answered at one place only in their serial order, and not scattered.
8. Assume suitable data if required.
9. *Copying solutions is academic dishonesty.*
10. The quality of your writing will be taken into account in the grade. The reader must understand what you wrote! Justify your answers.

Q. No.	Questions	Marks
Q1	Each question carry one mark(MCQ)	6
1(a)	The process of removing words like “and”, “is”, “a”, “an”, “the” from a sentence is called as: a) Stemming b) Lemmatization c) Stop word d) N-gram	1
1(b)	Which of the below are NLP use cases? a) Detecting objects from an image b) Facial Recognition c) Speech Biometric d) Text Summarization	1
1(c)	Which one of the following are keyword Normalization techniques in NLP a) Stemming b) Part of Speech c) Named entity recognition d) Lemmatization	1
1(d)	Which of the following techniques can be used to compute the distance between two word vectors in NLP? a) Lemmatization b) Euclidean distance c) Cosine Similarity d) N-grams	1
1(e)	Natural Language processing is the field of ____ a) Artificial Intelligence b) Computer Science c) Linguistics d) Data Science	1
1(f)	One of the main challenge in NLP is ____ a) Handling Tokenization b) Handling Ambiguity of Sentences c) Handling POS-Tagging d) Named entity recognition	1

Q2	Solve any one	7
2	<p>What is morphology? Explain derivational and Inflectional morphology in detail with suitable examples.</p> <p>OR</p> <p>What is N-gram model? Explain how N-gram is useful for Spelling correction.</p>	<p>7</p> <p>7</p>
Q3	Solve any one	7
3	<p>What is POS tagging? Explain different types of POS tagging</p> <p>OR</p> <p>What is regular expression? Write regular expressions for the following languages</p> <ul style="list-style-type: none"> i) the set of all alphabetic strings; ii) the set of all lower case alphabetic strings ending in a b; iii) the set of all strings from the alphabet a,b such that each a is immediately preceded by and immediately followed by a b; 	<p>7</p> <p>7</p>