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PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations - March 2026

Date: 11-03- 2026

Time: 11.45am to 01.15pm

School: SOIS	Program: BCA (Data Science)	
Course Code: CSA3403	Course Name: Natural Language Processing	
Semester: IV	Max Marks: 50	Weightage: 25%

CO - Levels	CO1	CO2
Marks	24	26

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

Q No.	Question	Marks	Level	CO
1	Define Natural Language	2 Marks	L1	CO1
2	List the need of Natural Language Processing	2 Marks	L1	CO1
3	State the usage of heuristic approach in early stage of NLP	2 Marks	L1	CO2
4	Outline the idea behind HMM	2 Marks	L1	CO2
5	Differentiate between BOW & TF-IDF (Any 2)	2 Marks	L2	CO2

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Explain the various stages/era in the history of NLP	10 Marks	L2	CO1
Or					
7.	a.	Describe the various key steps of Text Analytics.	10 Marks	L2	CO1

8.	a.	Recognize the purpose of Feature Extraction (Any 4)	10 Marks	L2	CO2
Or					
9.	a.	Distinguish any two techniques related to feature Extraction in NLP and classify their challenges in brief	10 Marks	L2	CO2

10.	a.	List the challenges faced during text collection and recognize the appropriate solutions for the mentioned challenges.	10 Marks	L2	CO1
Or					
11.	a.	Differentiate between chunking and Parsing (Any 5)	10 Marks	L2	CO1

12.	a.	Differentiate between stemming and lemmatization (Any 5)	10 Marks	L2	CO2
Or					
13.	a.	Explain the concept of Sentence boundary Detection (SBD) along with its challenges (Any 5)	10 Marks	L2	CO2