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Kumbalagodu, Mysore Road, Bengaluru -560074

[www.dbit.co.in](http://www.dbit.co.in/) Ph:+91- 80-28437028/29/30Fax:+91-80-28437031

**Department of CSE (AI&ML)**

**Internal Assessment Test-III**

Course Name: Natural Language Processing

Course Code: 18AI641

Date: 15/07/2023 Time: 11:00AM to 12:00PM

Semester: 6th Max marks: 30

***Note: Answer any two full questions, choosing only one full question from each Module. Each full question carry maximum of 15 marks***

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| **Q. NO** | **Module-3 Questions** | **MARKS** | **CO** | **RBTL** |
| **1.**  **2.** | 1. What are LSA feedback systems? Mention four benchmarks used by LSA to access the level of explanation. 2. Explain the functioning of word matching feedback system   **OR**   1. Explain the four patterns used to extract the relationship between two   entries with an example for each.  b) How stemming affects, the performance of IR systems. | 08M  07M  08M  07M | CO4  CO4  CO4  CO5 | L1,L2  L2  L2  L2 |
|  | **Module-4 Questions** |  |  |  |
| **3.**  **4.** | a) Define the Zipf law. Explain the importance of Zipf law related to word  distribution in natural language processing.  b) Briefly explain the application of wordnet.  **OR**   1. Describe tf-idf term weightage approach used in IR. 2. Briefly explain the probabilistic model and vector space model used for IR. | 08M  07M  07M  08M | CO5  CO5  CO5  CO5 | L1,L2  L2  L2  L2 |

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| CO4: Understand the concepts of text mining.  CO5: Illustrate information retrieval techniques. |

Name and Signature of Course Instructor–

Mr. Sanjay Kumar

Scrutinized by (Name and Signature)

Ms. B Kursheed

Mr. Puneeth Kumar P

HOD