Register Number:……..

KUMARAGURU
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B.E DEGREE MODEL EXAMINATIONS: NOV/DEC 2023

(Regulation 2018)

Seventh Semester

INFORMATION SCIENCE AND ENGINEERING

U18IST7001: Information Storage and Retrieval

COURSE OUTCOMES

CO1: Set-up different cloud storage options.
CO2: Analyze current environment and plan migration to cloud.
CO3: Understand the foundations of NLP techniques for text access and retrieval.
CO4: Evaluate an Information Retrieval Systems.
CO5: Understand Information Retrieval and Feedback model.
CO6: Understand the underlined technologies of a web search engine.

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-
PART A (10 x 2 = 20 Marks)
(Answer not more than 40 words)

1.	List the migration tools that integrate with AWS Migration Hub.	CO1	[K_2]
2.	State any three essential characteristics of cloud computing.	CO1	[K_2]
3.	What is the differentiate between snowmobile and snowball.	CO2	[K_2]
4.	Relate standard MySQL and PostgreSQL engines available in Amazon RDS	CO2	[K_2]
5.	Distinguish data retrieval system and information retrieval system.	CO3	[K_2]
6.	State the art of NLP for Text Retrieval.	CO3	[K_2]
7.	Draw the typical Text Retrieval System Architecture.	CO4	[K_2]
8.	Define tokenization.	CO4	[K_2]
9.	How can a TR system learn from examples to improve retrieval accuracy?	CO5	[K_2]
10.	List out the web search challenges and opportunities.	CO6	[K_2]

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

11.	a)	Explain in detail about the Storage Types on AWS	8	CO1	[K_2]
	b)	Illustrate the Networking on AWS in detail.	8	CO1	[K_3]
12.	a)	Explain in detail about Amazon Elastic Block Store.	10	CO2	[K_2]

	b)	State how the AWS Database Migration Service works?	6	CO2	[K_2]
13.	a)	Describe two problems exist in simplest vector space model	8	CO3	[K_3]
	b)	Explain TF Transformation and Doc Length Normalization with example	8	CO3	[K_2]
14.	a)	Design probabilistic retrieval model using smoothing and ranking function	10	CO4	[K_3]
	b)	Explain Query generation by sampling words from a Doc and write example with different Query.	6	CO4	[K_3]
15.	a)	Design Vector Space Model for Rocchio Feedback	8	CO5	[K_3]
	b)	Explain Recommender Filtering System and specify three basic problems exist in Content-Based Filtering.	8	CO5	[K_2]
16		Illustrate the web indexing on multiple machines GFS Architecture, with an example of creating the index in parallel MapReduce.	16	CO6	[K_3]

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