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A Time:	No: 117DX JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERAB B. Tech IV Year I Semester Examinations, November/December - 2017 INFORMATION RETRIEVAL SYSTEMS (Common to CSE, IT) Max. Mark This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. consists of 5 Units. Answer any one full question from each unit. Each questions 10 marks and may have a, b, c as sub questions.	AS: 75 Part B destion	A
1.a) b) c) d) e) f) g) h) i)	Define Precision and recall. Write a short note on probabilistic Retrieval. Write a short note on clustering. Explain briefly Thesaurus retrieval utility. Define Semantic network. Write a short note on parsing. What is query processing? Write a short note on pattern matching. Discuss about relevance ranking Write a short note on SIRE approach	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3]	A
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2. 3. 4. ,	Explain in detail about Probabilistic model and briefly describe Simple term wei an example. OR Explain how query is generated using language models with a neat example. Explain in detail about Regression analysis with an example and list out its advantage.	[10]	A
OR 5.a) Write a short note on hierarchal agglomerative clustering.			
b)	Explain in detail how clustering technique is used for generating Thesaurus.	[5+5]	
6.a) b)	Explain how parsing of single terms is performed in information retrieval. Explain in detail about K-Distance measure.	<u></u>	A
7.a) b)	Explain how syntactic parsing is carried out for complex phrases. Write a short note on crossing the language barrier in information retrieval.	[5+5]	
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