Previous Question Papers

Q.P Code: CS311SPE Hall Ticket No:

NARSIMHA REDDY ENGINEERING COLLEGE
(UGC AUTONOMOUS)

III B.Tech I Semester (NR20) Regular Examination, January 2023

INFORMATION RETRIEVAL SYSTEM
(Computer Science and Engineering)

Time: 3 hours Maximum marks: 75

Note:
- This question paper contains two parts A and B
- Part A is compulsory which carries 20 marks (10 sub questions are two from each unit carry 2 Marks). Answer all questions in Part A
- Part B Consists of 5 Units. Answer any one full question from each unit. Each question carries 10 Marks and may have a, b sub questions

Part-A
Answer all questions (25 Marks)

Q.No		Question	M	CO	BL
1)	a.	What are the two measures with an information retrieval system?	2	CO1	L1
	b.	Define high lighting?	2	CO1	L1
	c.	Define automatic indexing?	2	CO2	L2
	d.	Write about masking?	2	CO1	L1
	e.	Discuss about information extraction?	2	CO1	L1
	f.	Write short notes on statistical indexing?	2	CO3	L1
	g.	What is manual Clustering?	2	CO3	L1
	h.	Write short note on Ranking algorithms.	2	CO3	L1
	i.	Write short notes on hardware text search algorithm?	2	CO4	L1
	j.	Explain video Retrieval?	2	CO4	L2

Part-B
Answer all the Units
All Questions carry equal Marks (50 Marks)

Q.No		Question	M	CO	BL
		UNIT-I			
2)	a.	Discuss about search capabilities in information retrieval systems	5	CO1	L1
	b.	Write brief note on digital libraries and data warehouses.	5	CO2	L1
		OR			
3)	a.	What are browse capabilities in information retrieval systems explain in detail?	5	CO2	L2
	b.	Difference between database and information Retrieval systems?	5	CO1	L1

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		UNIT-II			
4)	a.	Explain in detail precision and recall?	5	CO1	L1
	b.	What is signature file structure and explain how it is useful in IRS.	5	CO2	L4
		OR			
5)	a.	Explain in detail hypertext data structures?	5	CO1	L1
	b.	Explain in detail inverted file structure?	5	CO1	L1
		UNIT-III			
6)	a.	What do you mean by natural language processing explain in detail	5	CO3	L1
	b.	Explain in detail thesaurus generation?	5	CO3	L1
		OR			
7)	a.	Explain in detail about concept indexing?	5	CO3	L1
	b.	Explain about automatic term clustering?	5	CO1	L1
		UNIT-IV			
8)	a.	What is Relevance feedback and explain the positive and negative feedback on retrial strategy?	5	CO4	L1
	b.	Explain in detail weighted searches of Boolean systems?	5	CO4	L1
		OR			
9)	a.	Explain in detail similarity measures?	5	CO4	L1
	b.	Give a brief account on cognition and perception?	5	CO3	L1
		UNIT-V			
10)	a.	Explain in detail hardware text search algorithm?	5	CO4	L1
	b.	Explain in detail graph retrieval?	5	CO4	L2
		OR			
11)	a.	Draw and explain the streaming architecture?	5	CO4	L3
	b.	Describe in detail multimedia information retrieval?	5	CO3	L1

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Q.P Code: CS3115PE Hall Ticket No.:

NARSIMHA REDDY ENGINEERING COLLEGE
(UGC AUTONOMOUS)

III B.Tech I Semester (NR20) Regular Examination, January 2023

INFORMATION RETRIEVAL SYSTEM
(Computer Science and Engineering)

Time :3 hours **Maximum marks: 75**

Note:
- This question paper contains two parts A and B
- Part A is compulsory which carries 20 marks (10 sub questions are two from each unit carry 2 Marks). Answer all questions in Part A
- Part B Consists of 5 Units. Answer any one full question from each unit. Each question carries 10 Marks and may have a, b sub questions

Part-A **(25 Marks)**
Answer all questions

Q.No		Question	M	CO	BL
1)	a.	What are the two measures with an information retrieval system?	2	CO1	L1
	b.	Define high lighting?	2	CO1	L1
	c.	Define automatic indexing?	2	CO2	L2
	d.	Write about masking?	2	CO1	L1
	e.	Discuss about information extraction?	2	CO1	L1
	f.	Write short notes on statistical indexing?	2	CO3	L1
	g.	What is manual Clustering?	2	CO3	L1
	h.	Write short note on Ranking algorithms.	2	CO3	L1
	i.	Write short notes on hardware text search algorithm?	2	CO4	L1
	j.	Explain video Retrieval?	2	CO4	L2

Part-B **(50 Marks)**
Answer all the Units
All Questions carry equal Marks

Q.No		Question	M	CO	BL
		UNIT–I			
2)	a.	Discuss about search capabilities in information retrieval systems	5	CO1	L1
	b.	Write brief note on digital libraries and data warehouses.	5	CO2	L1
		OR			
3)	a.	What are browse capabilities in information retrieval systems explain in detail?	5	CO2	L2
	b.	Difference between database and information Retrieval systems?	5	CO1	L1

		UNIT–II			
4)	a.	Explain in detail precision and recall?	5	CO1	L1
	b.	What is signature file structure and explain how it is useful in IRS.	5	CO2	L4
		OR			
5)	a.	Explain in detail hypertext data structures?	5	CO1	L1
	b.	Explain in detail inverted file structure?	5	CO1	L1
		UNIT–III			
6)	a.	What do you mean by natural language processing explain in detail	5	CO3	L1
	b.	Explain in detail thesaurus generation?	5	CO3	L1
		OR			
7)	a.	Explain in detail about concept indexing?	5	CO3	L1
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8)	a.	What is Relevance feedback and explain the positive and negative feedback on retrial strategy?	5	CO4	L1
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10)	a.	Explain in detail hardware text search algorithm?	5	CO4	L1
	b.	Explain in detail graph retrieval?	5	CO4	L2
		OR			
11)	a.	Draw and explain the streaming architecture?	5	CO4	L3
	b.	Describe in detail multimedia information retrieval?	5	CO3	L1

Code No: 117DX **R13**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, March - 2017

INFORMATION RETRIEVAL SYSTEMS

(Common to CSE, IT)

Time: 3 Hours **Max. Marks: 75**

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

Part- A

(25 Marks)

1.a) What is a non-binary independence model? [2]

b) What is a term frequency and normalized term frequency? Write down their equation [3]

c) Give an example that improves the effectiveness of Information retrieval system. [2]

d) What is Ward's method in clustering? Give example. [3]

e) What are semantic networks? [2]

f) What is comparable corpus and parallel corpus? [3]

g) What is meant by query processing? [2]

h) What is a signature and how to construct signature file. [3]

i) What is high-precision search? [2]

j) What is structured data and what is the use of XML? [3]

INFORMATION RETRIEVAL SYSTEMS

Part-B

(50 Marks)

2. Explain about vector space model in detail. [10]

OR

3.a) Explain about retrieval strategies and their categories.

b) What is smoothing in language model? Explain. [5+5]

4.a) Explain how Thesaurus are used to expand a query.

b) Explain about the use of manually generated Thesauri. [5+5]

OR

5. Explain about:
a) Resultset clustering b) Hierarchical Agglomerative clustering
c) Rocchio clustering [3+4+3]

6.a) What are the four core questions to cross the language barrier?

b) Explain about document translations and query translations. [4+6]

OR

7. Explain the following in semantic networks
a) R-distance b) K-distance [5+5]

8. Discuss about Duplicate document detection. [10]

OR

9. Explain about fixed length and variable index compression. [10]

10. What is distributed document retrieval? Explain the theoretical model of distributed retrieval. [10]

OR

11.a) Explain briefly about advantages and disadvantages of combining systems of DBMS and Information retrieval.

b) Explain about Relevance feedback in relational model. [5+5]

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R13

Code No: 117DX

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, November/December - 2016 INFORMATION RETRIEVAL SYSTEMS
(Computer Science and Engineering)

Time: 3 Hours **Max. Marks: 75**

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART- A

(25 Marks)

1.a) Explain Precision and Recall. [2]
b) Define Incorporating Term Frequency with example. [3]
c) What is computing New Query Weights? [2]
d) Explain the following terms with examples.
i) Ward's Method ii) Rocchio Clustering. [3]
e) What is use of POS and word sense tagging? [2]
f) Explain about Pharse Translation. [3]
g) Define Signature files. [2]
h) Explain compression based on posting list size. [3]
i) Explain about Query Log Analysis. [2]
j) Explain Proximity searches. [3]

PART-B

(50 Marks)

2. Explain key concerns with Probabilistic Retrieval Strategies. [10]

OR

3. Find the $P_{avg}(t)$ and $R_{t,d}$ for the following query using Language Model method Query: "gold silver truck"
D1: "shipment of gold damaged in a fire"
D2: "delivery of silver arrived in a silver truck"
D3: "shipment of gold arrived in a truck"

[1

0]

4. Explain about the concept of N-Gram in detail. [10]

OR

5. Consider the following example and find the Term co-occurrence D1 : "a dog will bark at a cat in a tree"
D2 : "ants eat the bark of a tree" [10]

Explain about Incorporating Distance and Complex Phrases. [10]

OR

6. What is Parsing? Explain Single terms and Simple Phrases? [10]

7. How do you perform Duplicate Document Detection in detail? [10]

OR

8. Explain in detail the partial result set retrieval and vector space simplifications. [10]

9. How to compute the relevance using Unchanged SQL? Explain with example. [10]

OR

10. What is a Distributed information retrieval? Explain about distributed information retrieval system model? [10]

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