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Code No. : 17655 (B) N/O

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD*Accredited by NAAC with A++ Grade***B.E. (I.T.) VII-Semester Main & Backlog Examinations, Dec.-23/Jan.-24****Information Retrieval Systems (PE-IV)**

Time: 3 hours

Max. Marks: 60

*Note: Answer all questions from Part-A and any FIVE from Part-B***Part-A (10 × 2 = 20 Marks)**

Q. No.	Stem of the question	M	L	CO	PO
1.	Define the role of information retrieval system.	2	1	1	1
2.	Differentiate between Ad-hoc and Filtering retrieval with an example.	2	2	1	1
3.	Name the four key word-based queries in Information Retrieval System.	2	1	2	1
4.	How will you evaluate the retrieved information?	2	1	2	1
5.	Identify the different categories of E-resources on the basis of content.	2	3	3	2
6.	How automatic local analysis is different from automatic global analysis.	2	1	3	1
7.	List out the various text compression techniques.	2	1	4	1
8.	Recall the information retrieval system capabilities.	2	1	4	1
9.	Outline the advantages of distributed information retrieval?	2	2	5	1
10.	How pattern matching happens during information retrieval?	2	4	5	12
Part-B (5 × 8 = 40 Marks)					
11. a)	Categorize the classic models in information retrieval system? Compare and contrast Classic IR models.	4	4	1	2
b)	How do you calculate the term weighting in document and query? Explain with an example.	4	3	1	2
12. a)	Classify the structured text retrieval models. Analyze any one model in detail.	4	4	2	2
b)	Demonstrate different models for browsing in information retrieval system. Give example for each.	4	2	2	12
13. a)	Explain about relevance feedback and query expansion.	4	2	3	1
b)	Analyze how automatic global analysis is performed during query processing for information retrieval?	4	4	3	2
14. a)	Analyze the process of information extraction and the process of document indexing.	4	4	4	2
b)	Illustrate the logical view of a document throughout the various phases of text processing.	4	2	4	1

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15. a)	Illustrate Boyer-Moore sequential searching algorithm with an example.	4	4	5	2
b)	Compare and contrast parallel and Distributed IR.	4	4	5	2
16. a)	What are set theoretic models for information retrieval system? Explain with a proper example.	4	1	1	1
b)	Give any two examples of Proximity Queries. How they are processed?	4	2	2	1
17.	Answer any <i>two</i> of the following:				
a)	Identify the requirements of XML information retrieval system?	4	2	3	1
b)	How hierarchical clustering happens? Explain with an example.	4	2	4	1
c)	Show the schematic diagram of distributed information retrieval architecture. How will you measure the performance of this architecture?	4	2	5	1

M : Marks; L: Bloom's Taxonomy Level; CO; Course Outcome; PO: Programme Outcome

i)	Blooms Taxonomy Level – 1	20%
ii)	Blooms Taxonomy Level – 2	40%
iii)	Blooms Taxonomy Level – 3 & 4	40%
