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**Question Paper Code: 59218**

B.E./B.Tech. DEGREE EXAMINATION, MAY 2022

Elective

Computer Science and Engineering

15UCS918- INFORMATION RETERIVEL

(Regulations 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Querying of unstructured textual data is referred to as CO1- R  
(a) Information access (b) Formation updation  
(c) Information manipulation (d) Information retrieval
2. A model of information retrieval in which we can pose any query in which search terms are combined with the operators AND, OR, and NOT CO2- R  
(a) Ad Hoc Retrieval (b) Ranked Retrieval Model  
(c) Boolean Information Model (d) ProximityQuery Model
3. A web server communicates with a client (browser) using which protocol: CO3- R  
(a) HTML (b) HTTP (c) FTP (d) Telnet
4. \_\_\_\_\_ is a software system that is designed to search for information on the World Wide Web CO4- R  
(a) web search engine (b) Page rank (c) MarkovChain (d) Hub
5. Benefits of doing text clustering are CO5- R  
(a) To improve retrieval recall (b) To improve retrieval speed  
(c) To compute better similarity scores (d) all of the above

PART – B (5 x 3= 15 Marks)

6. Specify the role of an IR system CO1- R
7. What do you mean information retrieval models? CO2- R

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|-----|---|--------|
| 8.  | What are the Types of Web search based on crawling? | CO3- R |
| 9.  | What is link analysis?                              | CO4- R |
| 10. | Name any two Document Clustering methods.           | CO5- R |

PART – C (5 x 16= 80 Marks)

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|-----|---|--------|------|
| 11. | (a) Demonstrate the working of IR architecture with a neat diagram                          | CO1- U | (16) |
|     | Or  |        |      |
|     | (b) Explain in detail about working with Electronic text                                    | CO1- U | (16) |
| 12. | (a) Explain in detail about vector-space retrieval models with an example                   | CO2- U | (16) |
|     | Or  |        |      |
|     | (b) Apply the Boolean model for Retrieving the Data for a Hospital Word Process Application | CO2- U | (16) |
| 13. | (a) Briefly explain web search architectures  | CO3-U  | (16) |
|     | Or  |        |      |
|     | (b) Explain crawling and types of crawling.   | CO3-U  | (16) |
| 14. | (a) Define Link Analysis and explain in detail  | CO4- U | (16) |
|     | Or  |        |      |
|     | (b) Explain in detail about static and dynamic ranking                                      | CO4- U | (16) |
| 15. | (a) Express the process of Text Mining  | CO5- U | (16) |
|     | Or  |        |      |
|     | (b) Discuss in detail about Text Classification   | CO5- U | (16) |