

Reg. No. :

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Question Paper Code: 99213

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Professional Elective

Computer Science Engineering

19UCS913 - INFORMATION RETRIEVAL

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

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| 1. | What are the applications of IR? | CO1-U |
| 2. | What are the components of search engine? | CO1-U |
| 3. | What do you mean information retrieval models? | CO1-U |
| 4. | What is language model based IR? | CO1-U |
| 5. | What are the levels of link analysis? | CO1-U |
| 6. | What is web crawler | CO1-U |
| 7. | What is link analysis? | CO1-U |
| 8. | What is query dependent ranking? | CO1-U |
| 9. | What is Text Preprocessing? | CO1-U |
| 10. | Define clustering | CO1-U |

PART – B (5 x 16= 80Marks)

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|-----|--|---------|------|
| 11. | (a) Explain the impact of the web on Information Retrieval System | CO1-U | (16) |
| | Or | | |
| | (b) Explain the importance of Information Retrieval system. | CO1-U | (16) |
| 12. | (a) Apply the algebraic and logical models for Retrieving the Data for a genomics Application. | CO2-App | (16) |
| | Or | | |
| | (b) Apply the logical models for Retrieving the Data for a mathematical real Application | CO2-App | (16) |
| 13. | (a) Develop a Web architecture and the components of yahoo search engine and its issues | CO2-App | (16) |

Or

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|-----|---|---------|------|
| | (b) Design and develop a Web search Architecture and the components of search engine and its issues | CO2-App | (16) |
| 14. | (a) Develop a Web architecture and the components of yahoo search engine and its issues | CO1- U | (16) |
| | Or | | |
| | (b) Describe the Searching using hyperlinks and Ranking process in detail with necessary examples | CO1- U | (16) |
| 15. | (a) Summarize Text Clustering in detail | CO1- U | (16) |
| | Or | | |
| | (b) Explain in detail about the working of Naïve Bayesian classifier with an example | CO1- U | (16) |