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Question Paper Code: 2058128

B.E. / B.Tech. DEGREE EXAMINATIONS, NOV/ DEC 2024

Eight Semester

Information Technology

CS8080 – INFORMATION RETRIEVAL TECHNIQUES

(Regulation 2017)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART – A

(10 x 2 = 20 Marks)

1. Compare between Information Retrieval and Web Search.
2. What is search engine?
3. Outline about Query Expansion.
4. What is inverted index?
5. Define Dimensionality reduction.
6. What is Hash-based Dictionary in Indexing?
7. What is meant by HITS?
8. Define focused crawler.
9. Outline about knowledge based Recommendation.
10. Compare collaborative filtering and content based systems.

PART – B

(5 x 13 = 65 Marks)

11. (a) Explain in detail about software architecture of IR system. (13)

(OR)

- (b) Explain in detail about the impact of the web on IR. (13)

12. (a) Illustrate about Boolean Retrieval model. (13)

(OR)

(b) Relate the concept of relevance feedback in IR. (13)

13. (a) Illustrate about Support Vector Machine (SVM) with example. (13)

(OR)

(b) Explain in detail about Navie Text Classification. (13)

14. (a) Summarize on the working of WEB CRAWLER with its diagram. (13)

(OR)

(b) Illustrate about the design of Web search Architecture and the components of search engine and its issues. (13)

15. (a) Explain the techniques of matrix factorization model. (13)

(OR)

(b) Explain about content-based recommendation systems with high level architecture. (13)

PART – C

(1 x 15 = 15 Marks)

16. (a) Assess the best Language model to computational linguistics for investigating the use of software to translate text or speech from one language to another. (15)

(OR)

(b) Compute the Cosine Similarity relevance for the query and documents. Assume that documents D2 and D3 are relevant to the query. (15)

Q: "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."