

Total No. of Questions – 09

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DECEMBER 2019 / ENDSEM

F. Y. M. TECH. (Computer Engineering) (SEMESTER - I)

COURSE NAME: Program Elective – II

(Information Retrieval and Web Mining)

COURSE CODE: CSPA11184A

(PATTERN 2018:R1)

Time: [3 Hour]

[Max. Marks: 50]

(*) Instructions to candidates:

- 1) Answer Q.1, Q.2, Q.3, Q.4 OR Q.5, Q.6 OR Q.7, Q.8 OR Q.9
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

Q.1) a) What are functions of Information Retrieval System? [3]

OR

b) Explain document database search. [3]

Q.2) a) What is relevance feedback in probabilistic model? [3]

OR

b) Describe various POS tagging techniques. [3]

Q.3) a) List out various principles for digital library designing. [2]

OR

b) What are security issues in Information Retrieval (IR)? [2]

Q.4) Compare text-centric vs data-centric XML retrieval. [6]

Describe pre-processing of web usage data in detail with diagram. [8]

OR

Q.5) a) Give detail architecture of web crawler. [6]

b) Explain need of link analysis along with its applications. [8]

Q.6) a) Write note on : [6]

- i. Recall
- ii. Precision
- iii. F- measure

b) Explain following for Collaborative Filtering Recommendation System [8]

- i. Basic Strategies

- ii. Types
- iii. Challenges

OR

- Q.7) a) Describe various social networking sites with its pros and cons. [6]
b) Explain challenges, types, and basic strategies for content-based recommendation system. [8]

- Q.8) a) What is CBIR (Content Based Image Retrieval)? Explain in detail. [6]
b) Write note on : [8]
 - i. Knowledge Representation
 - ii. Pattern Matching in IR

OR

- Q.9) a) What are various components of Multimedia IR? Explain in detail. [6]
b) Write note on: [8]
 - i. Web Ontology Languages
 - ii. RDF schema