

Oct-22/BE/Insem-49

B.E. (Computer Engineering)

INFORMATION RETRIEVAL

(2019 Pattern) (Semester-VII) (Elective-IV) (410245A)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q1 or Q2, and Q3 or Q4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

Q1) a) Draw the software architecture of the IR System and explain its components in detail. [7]

b) Describe the following IR Models: [8]

- i) Boolean Model
- ii) TF-IDF

OR

Q2) a) What are stop words and suggest solution for stop words removal with suitable examples. [7]

b) Explain Simple Tokenizing with example. [8]

Q3) a) Enlist different types of Index construction and explain any two with suitable examples. [7]

b) Define the term Dictionary in Static Inverted Indices & explain Sort-based versus hash-based dictionary with suitable example. [8]

OR

Q4) a) List and explain different classes of operators used in Query optimization. [7]

b) Write a short note on: [8]

- i) Query Optimization
- ii) Lightweight Structure

