

SPPU-BE-COMP-CONTENT – KSKA Git

Total No. of Questions : 8]

SEAT No. :

P-6559

[Total No. of Pages : 2

[6181]-109

Fourth Year B.E. (Computer Engineering)

INFORMATION RETRIEVAL

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

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) *Solve Q.1 or Q.2 and Q.3 or Q.4 and Q.5 or Q.6 and Q.7 or Q.8.*
- 2) *Figures to the right indicate full marks.*
- 3) *Neat diagram must be drawn whenever necessary.*
- 4) *Assume suitable data if necessary.*

Q1) a) What is Data Compression? Explain Modeling and Coding. [9]

b) Write a short note on : [9]

- i) Invalidation List
- ii) Garbage Collection
- iii) Document Modifications

OR

Q2) a) Write a short note on : [9]

- i) Decoding Performance
- ii) Document Reordering
- iii) Arithmetic Coding

b) Differentiate between Contiguous Inverted Lists & Noncontiguous Inverted. [5]

c) Differentiate between Non parametric Gap Compression & Parametric Gap Compression. [4]

Q3) a) Explain Categorization and Filtering with any two detailed Examples of each. [8]

b) Write a short note on Generalized Linear Models. [9]

OR

P.T.O.

SPPU-BE-COMP-CONTENT – KSKA Git

- Q4)** a) Explain Probabilistic Classifiers, Information-Theoretic Model in detail. [9]
b) Describe Language Models and Smoothing. [8]

- Q5)** a) Explain Traditional effectiveness measure and The Text Retrieval Conference (TREC) with suitable examples. [9]
b) Write a short note on : [9]
i) Nontraditional effectiveness measures
ii) Measuring efficiency

OR

- Q6)** a) What is Scheduling and Caching in Measuring Efficiency?. Explain in detail. [9]
b) Write a short note on : [9]
i) Using statistics in evaluation
ii) Minimizing adjudication Effort

- Q7)** a) Explain in detail Parallel Query Processing with suitable examples. [9]
b) Write a short note on : [8]
i) Static ranking
ii) Dynamic ranking

OR

- Q8)** a) Describe MapReduce with suitable examples. [9]
b) Write a short note on : [8]
i) Evaluation web search
ii) Web Crawlers

