

# SPPU-BE-COMP-CONTENT – KSKA Git

Total No. of Questions : 8]

SEAT No. :

**PB-2251**

[Total No. of Pages : 2

**[6263]-89**

**B.E. (Computer Engineering)**

**Information Retrieval**

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

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) Answer Q.No. Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8*
- 2) Figures to right indicate full marks*
- 3) Neat diagrams must be drawn whenever necessary*
- 4) Assume suitable data, if necessary*

**Q1) a) Explain Data Compression with Arithmetic Coding. [9]**

b) What is Parametric and Non-Parametric Gap Compression? Explain it in detail. [9]

OR

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

- i) Decoding Performance
- ii) Document Deletion
- iii) Symbol wise Coding

b) Explain in detail Dynamic Inverted Indices [9]

**Q3) a) Explain Probabilistic Classifiers & Generalized Linear Models. [9]**

b) Explain the Information-Theoretic Model in detail. [8]

OR

**Q4) a) Explain Categorization and Filtering with any two detailed Examples. [9]**

b) Describe Ranking with Language Model. [8]

**P.T.O.**

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**Q5) a)** Explain Traditional effectiveness measure and The Text Retrieval Conference (TREC) with suitable examples. **[9]**

**b)** Write a short note on: **[9]**

i) Redis and Memcached

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)** Describe Parallel Information Retrieval in detail. **[8]**

**b)** Write a short note on: **[9]**

i) The structure of the web

ii) Quires and Users

iii) Static ranking

OR

**Q8) a)** Describe MapReduce with suitable examples. **[9]**

**b)** Write a short note on: **[8]**

i) Beautiful Soup

ii) Python Scrapy

iii) Web crawler libraries

iv) Dynamic ranking

