

Total No. of Questions : 10]

SEAT No. :

P2365

[Total No. of Pages : 2

[5254] - 698

B.E. (Information Technology)

INFORMATION STORAGE AND RETRIEVAL (Elective - III)
(2012 Pattern)

Time : 2½ hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Neat diagram must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

Q1) a) Write difference between Data retrieval and information Retrieval. Define Index term. [5]

b) Explain single Pass algorithm. [5]

OR

Q2) a) Explain storage technique of Inverted file structure with example. [6]

b) Explain the term Harmonic mean, E - measure, R - precision, and precision histogram. [4]

Q3) a) What is ontology? How information is shared on ontology? [5]

b) Explain the trade - off between precision and recall. [5]

OR

Q4) a) Explain vector model in detail. [5]

b) Explain the two ways of serial search retrieval using matching function. [5]

Q5) a) Explain physical and logical document partitioning. [8]

b) What is meant by multimedia IR? What is the difference between traditional IR and multimedia IR? What are the goals and challenges in multimedia IR? [8]

P.T.O.

OR

- Q6)** a) Explain data models used for Multimedia IR. [8]
b) Explain GEMINI for two dimensional color image. [8]

- Q7)** a) What are crawlers? Explain centralized architecture and Harvest architecture. [8]
b) What are the processing steps in crawler? [6]
c) What is robo exclusion? Explain robot.txt. [4]

OR

- Q8)** a) Discuss challenges involved in web searching. [10]
b) Write a note on: characterizing the web. [8]

- Q9)** a) What is content based recommendation? [8]
b) Explain the method for extracting data from text. [8]

OR

- Q10)** a) Define Recommender System? Explain in brief collaborative filtering. [8]
b) Explain the concept of semantic web. How it is useful in web searching? [8]

