

Total No. of Questions : 8]

SEAT No. :

**P6375**

[Total No. of Pages : 2

**[6181]-361**

**B.E. (Artificial Intelligence & Machine Learning)**

**INFORMATION RETRIEVAL IN AI**

**(2019 Pattern) (Semester-VII) (418541)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

**Q1) a)** What do you understand by interface support for search process? Explain with example. **[9]**

b) What are the different starting points? **[9]**

OR

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

i) Precision and Recall

ii) Evaluation of information retrieval system

b) Explain in detail MRR, F-Score and NDCG parameters with examples. **[9]**

**Q3) a)** Explain Distributed Information Retrieval. **[8]**

b) Explain one dimensional time series with example **[9]**

OR

**Q4) a)** Explain collection partitioning & source selection with respect to distributed information retrieval system. **[8]**

b) Write a short notes on MULTOS and GEMINI approach. **[9]**

**P.T.O.**

- Q5) a)** Explain Challenges involved in searching web. [9]
- b) What are Meta searchers? Explain with suitable example. [9]

OR

- Q6) a)** Discuss the centralized architecture of search engine. Also discuss drawbacks of harvest distributed architecture. [9]
- b) What is importance of Ranking in information retrieval. Explain any one ranking algorithm. [9]

- Q7) a)** State the difference between simple search and Metasearch with examples.[9]
- b) Explain with block diagram working of Metasearch. [8]

OR

- Q8) a)** What is need and significance of Metasearch in information retrieval in AI systems. [9]
- b) Write different examples of metasearch engines. [8]

