

**M. TECH.-II (INFORMATION TECHNOLOGY) (CBCS –  
2015 COURSE) : WINTER - 2017**

**SUBJECT: INFORMATION RETRIEVAL**

Day: **Tuesday**  
Date: **28/11/2017**

Time: **11.00 AM TO 02.00 PM**  
Max. Marks: 60

**W-2017-2813**

**N.B.:**

- 1) All Questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw diagrams **WHEREVER** necessary.

**SECTION-I**

- Q.1** Define Information retrieval system. Describe its impact on web (10)  
**OR**  
Elaborate IR. What is different between data retrieval and Information retrieval? (10)
- Q.2** How IR system can be represented using rank retrieval model. Explain with suitable example. (10)  
**OR**  
Explain stemming in IR along with different algorithms. (10)
- Q.3** Explain the various performance evaluations and measures for IR system. (10)  
**OR**  
State and explain zipf's law with an example (10)

**SECTION-II**

- Q.4** Explain Navie Bayes categorization algorithm strategies and its limitation. (10)  
**OR**  
Explain meta-crawlers with example. (10)
- Q.5** Explain K-means algorithm with an example. (10)  
**OR**  
Describe language model based retrieval using text clustering. (10)
- Q.6** Describe content-based recommendation of documents and products. (10)  
**OR**  
Explain collaborative filtering with example. (10)

\* \* \* \* \*