

**Government College of Engineering, Aurangabad**  
(An Autonomous Institute of Government of Maharashtra)

**B.E.(IT) Examination**  
End Semester Examination Nov 2016

**IT 441:INFORMATION RETRIEVAL**

*Time: Three Hours*

**16 NOV 2016**

*Max. Marks. 60*

*"Verify the course code and check whether you have got the correct question paper"*

*N.B:-*

- 1. All questions are compulsory*
- 2. Figures to the right indicate full marks.*
- 3. Assume suitable data if necessary and state clearly*
- 4. Use of non-programmable calculator is allowed*

Q.1) Attempt any Two. (12)

- i) Define Information Retrieval System. Explain the objectives of the Information Retrieval System.
- ii) Explain the Boolean model in detail.
- iii) Describe different practical issues in the web.

Q.2) Attempt any Two. (12)

- i) What is Recall? With an example, describe achievable precision/ recall graphs.
- ii) Illustrate Alternative measures of retrieval performance evaluation
- iii) What are the different statistical methods in clustering?

Q.3) Attempt any Two. (12)

- i) What is stemming? Describe stemming strategies..
- ii) Compare the various text compression techniques.
- iii) Illustrate different characteristics of text.

Q.4) Attempt All. (12)

- i) Describe the Boolean queries in detail.
- ii) Explain in brief, the two different ways to measure query difficulty.

Q.5) Attempt any Two. (12)

- i) Explain Cluster based architecture in detail
- ii) Describe centralized architecture of web search engine.
- iii) Discuss all web search engine ranking challenges.