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Question Paper Code: 59218

B.E./B.Tech. DEGREE EXAMINATION, SEP 2020

Elective

Computer Science and Engineering

15UCS918- INFORMATION RETERIVEL

(Regulation 2015)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any Six of the following Questions)

- Information retrieval systems have much in common with CO1- U
 - Filing systems
 - Transaction systems
 - Database systems
 - Management systems
- The number of times that a word or term occurs in a document is called the CO1- U
 - Proximity Operator
 - Vocabulary Lexicon
 - Term Frequency
 - Indexing
- A scheme where a weight is assigned to a term based upon the number of occurrences of the term within a document is called CO1- U
 - Bag of Words
 - Document Frequency
 - Term Frequency
 - Optimal weight
- The formula used to estimate the vocabulary size of a collection is known as CO2- U
 - Zipf's law
 - Power law
 - Heap's law
 - Compression ratio
- A data structure that maps terms back to the parts of a document in which they occur is called an CO2- U
 - Postings list
 - Incidence Matrix
 - Dictionary
 - Inverted Index
- A measure of similarity between two vectors which is determined by measuring the angle between them is called CO3- R
 - Cosine similarity
 - Sine similarity
 - Vector similarity
 - Vector scoring
- Which of the following items is not a component of a complete search system? CO3- R
 - Document cache
 - Indexers
 - Spell correction
 - Horizontal index

8. A web server communicates with a client (browser) using which protocol CO4- R
(a) HTML (b) HTTP (c) FTP (d) Telnet
9. A program that captures and indexes content from web pages is known as what CO4- R
insect:
(a) Fly (b) Centipede (c) Mosquito (d) Spider
10. In order to access a particular web site in the internet, the URL must be CO4- R
converted into an IP address. Which service does this conversion?
Select one:
(a) HTTP (b) TNS (c) DNS (d) DHCP

PART – B (3 x 8 = 24 Marks)

(Answer any Three of the following Questions)

11. Explain the Information Retrieval. CO1- U (8)
12. Explain about Boolean model for IR CO2- U (8)
13. Explain about Probabilistic IR. CO2- U (8)
14. Explain in pay-for-placement of search services. CO3- U (8)
15. Explain hub with an example. CO4- U (8)