

(FOR THE CANDIDATES ADMITTED

21UCS6E7

DURING THE ACADEMIC YEAR 2021

ONLY)

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY-2024

BSC COMPUTER SCIENCE(SF)

MAXIMUM MARKS: 70

SEMESTER VI

TIME : 3 HOURS

PART - III

21UCS6E7- INFORMATION RETRIEVAL

SECTION - A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS. (K1)

MULTIPLE CHOICE QUESTIONS.

1. A----- has a large number of zeros and so it takes unwanted space to store these zeroes. .
a) sparse vector b)vector c)index d)sparse matrix
2. A----- is computed by dividing its elements by its length.
a)Binary vector b)unit vector c)Jsparse vector d)vector
- 3.----- is a total number of documents retrieved that are relevant/Total number of relevant documents in the database .
a)recall b)F-measure c)precision d)mean
4. The components of IR Model is _____
a). Crawling b)Indexing c) Query d) All options are correct
5. -----means identifying all the expressions that indicate to the same entity in a given text.
a)named entity recognition b)co-reference resolution
c) event extraction d)relation extraction

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. List some goals of IR.
7. What is ranked retrieval approach?.
8. Define Precision.
9. What is the use of hub.?
10. Recall NP-chunking.

SECTION – B

(5 X 4 = 20 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a)State Zipfs Law and explain it. (OR)
b)Discuss in detail components of IR model.

(CONT...2)

12. a) Narrate the concept of TF-IDF weighting it with example
(OR)
b) Give short notes on Vector space models.
13. a) Examine the query expansion and any one of its techniques.
(OR)
b) Describe the concept of Expectation maximization algorithm .
14. a) List the application of information Filtering and explain it.
(OR)
b) Write short notes on meta crawlers .
15. a) Narrate the concept of NE recognition
(OR)
b) Evaluate the concept of event Extraction.

SECTION - C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS (K4 (Or) K5)****(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS
(FROM Qn. No : 17 to 21))**

16. Discuss on impact of the web in IR.
17. Demonstrate the major steps involved in indexing.
18. Categorize the queries in IR system with example. .
19. Elucidate the concept of text categorization using KNN.
20. Describe the concept of content base recommendation with example
21. Explain in detail web mining and its applications.
