



UNIVERSITY EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY

FIRST SEMESTER 2023/2024

[JAN – APRIL, 2024]

INS 405: ADVANCED INFORMATION RETRIEVAL

STREAM: Y4 S1

TIME: 2 HOURS

DAY: FRIDAY, 3:00 - 5:00 P.M.

DATE: 19/04/2024

INSTRUCTIONS

- 1. Do not write anything on this question paper.**
- 2. Answer question ONE (Compulsory) and any other TWO questions.**

QUESTION ONE

- a) Explain the following terms as used in information storage and retrieval (4marks)
- i) Query
 - ii) Metadata
 - iii) Search engine
 - iv) Relevance feedback
- b) Discuss three functions of information retrieval systems (6 marks)
- c) Highlight four criteria used to evaluate search engine (8 marks)
- d) Discuss three factors that influence the result of a search process in information retrieval systems (6 marks)
- e) Explain the various ways in which information can be organized (6 marks)

QUESTION TWO

- a) With relevant examples, explain “fuzzy logic” and how it works (10 marks)
- b) Discuss five components of an information retrieval (10 marks)

QUESTION THREE

- a) Discuss the relevance of information life cycle in information retrieval (10 marks)
- b) Explain four purposes of indexing in information retrieval systems (10 marks)

QUESTION FOUR

- a) Explain the criteria of evaluating information retrieval systems (10 marks)
- b) Discuss the following information retrieval models (10 marks)
 - i) Boolean Logic Model
 - ii) Vector space model

QUESTION FIVE

- a) Websites are becoming integral components in modern information retrieval:
Explain five parameters that are used to evaluate the quality of websites (10 marks)
- Distinguished between citation indexing and citation analysis (10 marks)