



TECHNICAL UNIVERSITY OF MOMBASA

School of Humanities and Social Sciences

Social Sciences

UNIVERSITY EXAMINATION FOR: BACHELOR OF INFORMATION SCIENCE

HIS 4409: INFORMETRICS

SERIES: AUGUST 2025

TIME: 2 HOURS

DATE: Jul2025

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

Question ONE

- a) Using an illustration, compare Author Co-citation Analysis (ACA) and Web Colink Analysis (WCA) [10 marks]
- b) Discuss **FIVE (5)** areas of webometrics [10 marks]
- d) Outline **Five (5)** uses of bibliometrics techniques at the institutional level [10 marks]

Question TWO

- a). Using an illustration describe typical kinds of scholarly homogenous networks [10 marks]
- b). In order to help researchers, establish personal profiles that enable them to share interests and papers, a series of ASNs sites emerged. Discuss **Five (5)** more popular scholarly sites [10 marks]

Question THREE

- a). Explain **Five (5)** major academic social network analysis tools [10 marks].
- b). Describe **Five (5)** categories of mining technologies in academic social network [10 marks]

Question FOUR

- a) Discuss **Five (5)** methods of analysis of web contents [10 marks]
- b) Describe Lotka's Law on Productivity of Authors [10 marks]

Question FIVE

- a). Discuss **Five (5)** for citation in scholarly work [10 marks]
- b). Discuss **Five (5)** visualizing techniques in a web environment [10 marks]