



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2017/2018 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER

SCHOOL OF SCIENCE AND INFORMATION SCIENCE

BACHELOR OF INFORMATION SCIENCES

COURSE CODE: INS 432

COURSE TITLE: INFORMATION RETRIEVAL II

DATE: 16TH APRIL 2018

TIME: 11:00AM-1:00PM

INSTRUCTIONS TO CANDIDATE

- **ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS.**
- **ILLUSTRATE YOUR ANSWERS WITH APPROPRIATE EXAMPLES**

QUESTION ONE

- 1 a) What is advanced search? **(4 marks)**
- 1b) State the components of search engine **(4 marks)**
- 1C) What is search strategy **(3 marks)**
- 1d) With the aid of a diagram explain layered the structure of database. **(4marks)**
- 1e) Imagine you have been tasked to train post graduate students on advanced web searching. Discuss the contents of your presentation **(15 marks)**
- 2 a) With the aid illustration explain **three** processes an information retrieval system must to support. **(10 marks)**
- 2b) Explain the features and services of search engine, its architectures or components. **(10 marks)**
- 3 a) Define evaluation in information retrieval and discuss **five** Lancaster's (1971) five evaluation criteria. **(10 marks)**
- 3 b) Suppose it has been found at Kenyatta National Hospital that due to equipment malfunction , the results of blood test taken on 20th January 2018 from 1000 diabetic patients are un reliable. The hospital uses an information retrieval system to identify these patients. The system retrieves 250 patients of which 125 are relevant to the query . Calculate precision and recall of the system. **(10 marks)**
4. Discuss the functions of an information retrieval system and state **ten** requirements of an effective information retrieval system. **(20marks)**

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