



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2024_2 EXAMINATION

COURSE CODE: CIT 841

COURSE TITLE: Advanced Information Storage and Retrieval

CREDIT UNIT: 2

TIME ALLOWED: 2½ HOURS

INSTRUCTION: Answer Three Questions in ALL. Question 1 is compulsory

1.

- a) Mention the steps involved in Document Linearization **[5 marks]**
- b) Why are persistent identifiers preferred in digital identification? **[5 marks]**
- c) Mention ways in which Metadata fulfills similar purposes in resource discovery as quality cataloging. **[5 marks]**
- d) State 5 advantages of utilizing the Boolean model **[5 marks]**
- e) What are the two significant functions that metadata serves as Information Repositories? **[10 marks]**

2.

- a) Describe how a search engine functions, considering that it is a workability created for information retrieval? **(5marks)**
- b) Using a diagram, show your understanding of the phrase “intersect of concerns” **[5 marks]**
- c) How does searching differ in technicality from navigation? **[5 marks]**
- d) What is the connection between metadata and resource discovery? **[5 marks]**

3.

- a) What is the primary emphasis or importance associated with the term "Digital Information Organization"? **[5 marks]**
- b) Explain the concept behind Viewing a webpage. **[5 marks]**
- c) Give a brief history of bibliographic information cataloging **[5 marks]**
- d) Outline the five types of characteristics associated with Pre-Publishing Structuring, **[5 marks]**

4.

- a) Enumerate and provide a detailed explanation of the component found in a MARC record. **[6 marks]**
- b) Various operators are employed to indicate diverse query structures. Could you highlight the operators commonly utilized for strong query structures? **[5 marks]**
- c) Give brief tasks binding on meta data **[4 marks]**
- d) Present a breakdown of the six principles that can be utilized to uphold the quality of metadata **[5 marks]**

5.

- a) State the objectives of an information organization. **[3 marks]**
- b) Probabilistic retrieval is a statistical model. Explain. **[4 marks]**
- c) Enumerate the three key factors that influence query formulation, as identified in studies. **[3 marks]**
- d) Enumerate five key tools employed by the web for information retrieval. **[10 marks]**