



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-  
ABUJA**

**FACULTY OF SCIENCES**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**2024 1 EXAMINATION**

**COURSE CODE : CIT 841**

**COURSE TITLE : Advanced Information Storage and Retrieval**

**CREDIT UNIT : 2**

**TIME ALLOWED : 2 HOURS**

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

1.
  - a) Give detail Description of the bibliographic information retrieval system. *[8 marks]*
  - b) How does metadata aid digital identification? *[5 marks]*
  - c) Give an overview of the different categories into which creation tools can be classified. *[8 marks]*
  - d) What are the eight sub-processes that constitute the interaction within information seeking, which is considered a form of problem-solving? *[4 marks]*
  - e) State the 5 categories of attributes associated with Pre-Publishing Structuring *[5 marks]*
  
2.
  - a) provide a detailed explanation of what an information retrieval system entails? *[5 marks]*
  - b) Explain the statement "information does not exist in a vacuum" *[5 marks]*
  - c) What is a controlled vocabulary? How is it useful in the information life cycle? *[4 marks]*
  - d) Explain the three major types of metadata and provide their respective explanations. *[6 marks]*
  
3.
  - a) What are the factors that contribute to the differentiation of digital libraries from traditional libraries in terms of their characteristics and functionalities? *[4 marks]*
  - b) Why do web pages associate itself with and ID number. *[6 marks]*
  - c) What are the likely contents of a bibliographic database? *[4 marks]*
  - d) What are the disadvantages or limitations of digital information? *[6 marks]*
  
4.
  - a) Discuss the main aspects and focus of UNIMARC. *[6 marks]*
  - b) Several operators are utilized to indicate different query structures. Can you emphasize the operators commonly employed for weak query structures? *[3 marks]*
  - c) Give the differences between the MARC 21 formats for Bibliographic data, holdings data, authority data and classification data. *[6 marks]*
  - d) provide a description of the operators typically employed to indicate different strong query structures. *[5 marks]*
  
- 5.

- a) Give emphasis to the concept of Information Organization. *[5 marks]*
- b) Mention the shortcomings associated with the vector space model and other statistical models? *[5 marks]*
- c) Enumerate the stages or procedures involved in Document Linearization. *[6 marks]*
- d) Highlight on the fields mandatory in a typical UNIMARC record *[4 marks]*

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