



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_1 EXAMINATION...

COURSE CODE : CIT841

COURSE TITLE: Advanced Information Storage and Retrieval

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

INSTRUCTION: Answer Question 1 and any other TWO (2) questions

1. a. Define Information Organization (IO). (4mks)
b. Enumerate **three** objectives of information organization. (6mks)
c. Highlight the processes of digital information organization. (4mks)
d. How do digital libraries differ from traditional libraries? (7mks)
e. List **eight (8)** models developed to retrieve information. (8mks)
f. What is the primary goal of information retrieval? (1mk)
- 2.a. Narrate how bibliographic cataloging evolved over the past two centuries. (6mks)
b. Explain information life cycle. (5mks)
c. Enumerate **six (6)** principal steps in the information life cycle. (6mks)
d. Define information management. (3mks)
- 3.a. State the Machine-Readable Cataloging (MARC) standard. (3mks)
b. List the MARC main components. (3mks)
c. State the primary purpose of Universal Machine -Readable Cataloging. (2mks)
d. Enumerate the general layouts of Bibliographic Record in UNIMARC. (3mks)

e. Define the following:
i. PURLs (2mks)
ii. DOIs (2mks)
f. Why are persistent identifiers like PURLs or DOIs preferred over standard URLs in metadata schemes for digital identification? (5mks)
- 4.a. Enumerate main differences between bibliographic and non-bibliographic information. (7mks)
b. What are the functions of metadata in resource discovery and organizing electronic resources? (8mks)
c. State **five (5)** standards for effective information organization and storage. (5mks)
- 5.a. Enumerate approaches for achieving interoperability. (4mks)
b. Who typically creates metadata? (3mks)
c. What tools are used in the creation process? (8mks)
d. What does metadata quality control involve? (5mks)