



## NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, Plot 91, Cadastral Zone,  
Nnamdi Azikiwe Expressway, Jabi, Abuja  
FACULTY OF SCIENCES  
DEPARTMENT OF COMPUTER SCIENCES  
**2023\_1 POP EXAMINATION**

**Course Code:** CIT841  
**Course Title:** Advanced Information Storage and Retrieval  
**Course Credit** Unit: 2  
**Time Allowed:** 2Hours  
**Instruction:** Answer Question 1 and any other Two (2) questions

### Question 1

- Write down any five (5) functions of information retrieval system (5marks)
- Using any three points each, differentiate between structured and unstructured information? (6marks)
- Write down any six (6) processes associated with Information seeking (6marks)
- What are the major components of the IR block diagram (5marks)
- Metadata is broadly classified into three. Discuss them (6marks)
- What are the constituents of a valid query? (2marks)

### Question 2

- Using appropriate examples, mention any five types of Search Engines (5marks)
- Justify any six (6) major functions of descriptive metadata (6marks)
- Expatiate on the similarities and differences between fuzzy logic and expert systems (6marks)
- Mention any three (3) applications of Information retrieval? (3marks)

### Question 3

- Discuss any four (4) known challenges associated with the creation of user profile? (8marks)
- Explain the methods of user profile specification? (6marks)
- Discuss two approaches to Interoperability (6marks)

### Question 4

- Discuss four steps involved in documents linearization (6marks)
- Critically examine the differences between internet and world wide web (5marks)
- List and discuss any six (6) measurable quantities for assessing an information retrieval system (9marks)

### Question 5

- Distinguish between searching from Navigation (4marks)
- Discuss the vocabulary problem? (4marks)
- Write down any seven features of a good metadata (7marks)
- Discuss five steps in Indexing (5marks)