



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)