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

DEPARTMENT OF COMPUTER SCIENCE SEPTEMBER 2020 1 EXAMINATION

COURSE CODE: CIT841

COURSE TITLE: ADVANCED INFORMATION STORAGE AND RETRIEVAL

CREDIT UNIT: 2 TIME ALLOWED: 2HRS

INSTRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER THREE.

Question 1.

a. Discuss three components of a search engine. (4marks)

b. i. What is User Profile Personalization? (3 marks)

ii. In the context of search, describe the steps involved in personalization. (4 marks)

- c. Explain four major characteristics of a Traditional Library. (4 marks)
- d. When is a document said to be Relevant to the information system user? (2 marks)
- e. Validate the main purpose of query expansion? (4 marks)
- f. Enumerate four principal steps in information life cycle. (4 marks)

Question 2

- a. (i) Describe the term Filtration? (1 mark)
 - (ii) Of what advantage is filtration? (2 marks)
 - (iii) Why are frequently used terms not preferred? (2marks)
- b. Discuss Probabilistic indexing. (4 marks)
- c. Elucidate on the operations of a Web search engines. (6 marks)

Question 3

- a. Highlight any four benefits of a digital library. (4 marks)
- b. In search engines, what are hits? (2 marks)
- c. Discuss three different ways to specify user profiles. (9 marks)

Question 4

- a. Differentiate between Static and Dynamic information retrieval. (3 marks)
- b. Highlight any two advantages of digital information over traditional information.

(2 marks)

c. (i) What is Stemming?

(2 marks)

(ii) Relate the effect of stemming in searching. (2 marks)

d. Enumerate six main measurable quantities when evaluating an information retrieval system (6marks)

Question 5

- a. What is weighting? Hence explain the concept of global weighting? (3 marks)
- b. What is a web User Profile? (4.5 marks)
- c. In the context of Information storage and retrieval, when is information said to be Subjective? (4.5 marks)
- d. With respect to content, identify any type of information (3 marks)