Abbes Laghrour University - Khenchela -

Department of Mathematics & Computer Science

1ˢᵗ year computer science/Mathematics

Information and Communication Technology Tools

Duration: 01:30   **22/05/2024**

Full name: ……………………………..   **Domain**: ………………………………   **Group**: …….

Final Exam

Exercise 1 (10 pts): Answer the following questions:

1. Explain the steps of web searching **(3 pts)**

   The **process** of searching the information is broken down into **three** main stages:

   ➢ The first stage is the process of discovering the information (**Crawling**).

   ➢ The second stage is organizing the information (**Indexing**).

   ➢ The third stage is deciding which pages to show in the results for a search query and in what order (**Ranking**).

2. Explain truncation and adjacency in Internet search **(2 pts)**

➢ **Truncation** is a technique that allows you to broaden the search to all words that have a common root by using the operator "*"

➢ **Adjacency** is an exact proximity search by using quotation marks in the request. These frame an expression or a series of keywords that we wish to find exactly as written, in that specific order."

3. Why do we need to refine web searches? **(2 pts)**

   We use web refinement to optimize, personalize, and increase the chance of finding an objective that the Internet user is looking for on the Internet.

4. Mention various sectors within the Information and Communication Technology (ICT). For each sector, provide two examples of equipment or devices commonly used. **(3 pts)**

   ➢ **IT sector:** Personal computers(laptops), Servers, Network equipment;

   ➢ **Electronic sector:** Semiconductors, Printed circuits, Measuring equipment;

   ➢ **Telecommunication sector**: Switches, optical fibers, cables….

Exercise 2 (10 pts): Choose the correct answer:

1. The operator used to exclude any document or site that contains a word after it in a search query is: **a.** **«~ »** **b.** **« – »** **c.** **« OR »**	6. « Inurl » is used to : **a.** **Display only pages whose URL contains the keyword preceded by the operator** b. Display only pages whose URL contains the keyword preceded by the operator c. Both
7. Forums are places for thematic exchanges operating in a. Synchronous mode **b.** **Asynchronous mode** c. Both	8. In an interconnected network, if a computer becomes defective, which of these topologies will be affected or damaged? a. Bus **b.** **Ring** c. Star
2. Which network of the following is suitable for interconnecting a few buildings located in the same city: **a.** **LAN** b. MAN c. WAN	9. The program which aims to find information located on a web page is called: a. Web browser b. Web page **c.** **Search engine**
3. The biometric device is: **a.** **Input device** b. Output device c. Input/output device	10. Audio-conferencing is where all the participants: a. Dial each other directly **b.** **Dial into a central system that connects them** c. Both
4. The network topology means : a. The physical arrangement of nodes b. The logical arrangement of nodes and communication **c.** **Both**	5. Which of the following advertising types leaves no space for the internet user and occupies a full-screen a. Banner **b.** **Interstitial** c. Window

Best of luck