Institute of Statistical Studies and Research
Cairo University

Department of Computer and Information Sciences
Course Title: Methods & Methodology of Scientific Research
Course Code: PP601

Examination Date: 19/01/2015
Examination time: 3 hours
Total Marks: 75 marks

The Examination consists of fourteen Questions in two Pages

Answer all the following questions

PART A- (10 x 2 = 20 marks)

1. What is the difference between **method** and **methodology**?
2. What is the first step of the **writing process**?
3. What is the **literature**?
4. What are the **components** of a proposal?
5. What are the **factors** that you should consider during an oral presentation?
6. What should a **title** be?
7. What are the guidelines that make an **effective** presentation?
8. What does **plagiarism** mean?
9. What is the difference between **a thesis and dissertation**?
10. Why a proposal does have a **previous work** section?

PART B - (55 marks)

11. Let you have two titles as follows: (10 marks)

    Title #1 - **Red Haired Musicians and their Preference for Musical Style.**

    Title #2 - **Music Style Preference of Red Haired Musicians.**

    What is the difference between the two titles?

12. **Rephrase the following paragraph in maximum 10 lines**: (10 marks)

In temporal XML, [1] proposed a novel approach to the management of Web document archives and data warehouses. Therefore, the author presented simple techniques (based on the hierarchical time-stamping of XML elements) and showed that they can be used to represent query temporal information in XML. In XML Security, [2] built an effective XML-based security data exchange solution. The program achieved the expectant functions, provided data confidentiality, integrity, and other network security services to ensure the security data transfer and storage. [3] Focused on the development of a processing model for efficiently querying encrypted XML documents using XQuery. This model required certain documents for efficient querying, including a DSL that

specified how to encrypt the XML documents and the XML Schema of the original XML documents. [4] Presented two patterns: Symmetric Encryption and XML Encryption, the latter is a specialization and extension of the first one. These two patterns made clearer the logic behind XML Encryption. [5] Proposed (i) instance/schema level data access control for XML documents, (ii) composite security levels, and (iii) levels of access, offering a more rigorous concept for XML access control.

13. List the details of your presentation about your project's proposal. (15 marks)
14. Submit a summary for the two uploaded papers. (20 marks)

With my best wishes ☺

Dr. Abd El-Aziz Ahmed