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Water Quality Analysis (code)

Lab Assignments

Assignment #1

Planning and Preparation for Water Sampling

I- Objectives:

The objectives of this lab session are to

- 1- Identify the different types of national water sources and facilities.
- 2- Design a plan for collecting water samples for each water source or facility.
- 3- Determine the appropriate water sample container and its preparation steps.
- 4- Apply the appropriate preparation procedures to different water sample containers.

II- Requirements:

Students are asked to select different water sources or facilities located in their region to achieve the prescribed objectives by applying the knowledge gained from lectures. Students should submit a report covering the following items

- 1- Types of water sources or facility selected (at least 3 types)
- 2- Materials and containers for water sampling
- 3- A Design of a complete working plan for the sampling process for each water type.
- 4- Complete the standard methods of preparation of the appropriate water sample containers.
- 5- A design of field sheets for future water sampling for each water type.
- 6- A recorded video of one of the applied container preparation methods.

III- Report Format:



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- The report should be written using MS Word with Times New Roman, font size 14 for titles & 12 for the text body, titles & subtitles are in **bold**. Page margins 1.25" for top & bottom and 1.0" for left & right margins, page numbers are at bottom center.
- The report should include a front page showing the university and department names and logos, program name, course name and code, instructor name and affiliation, title of the report, the name(s) of the student(s), and the semester (fall, spring, or summer) and academic year.
- The report should have the following main parts: Abstract (max. 200 words), Introduction, Objective(s) of the work, Materials and Methods, Results, Discussion, Interpretation), Conclusion, References, Appendix (optional).
- Reports should be submitted next week in both a hard and soft format.

IV- Rubrics for assessment of lab assignments:

Items	Excellent (4)	Good (3)	Fair (2)	Poor (1)
A. Overall grammatical content & formatting (20%)				
1. The report has a well-organized front page.				
2. The document is free of spelling & grammatical errors.				
3. General formatting guidelines were followed: topics sequence, margins, line spacing & font size.				
4. Graphics and tables are incorporated and serve the topic objectives.				
5. The abstract does not exceed 200 words.				
6. The introduction is well organized & covers main topics				
7. The objectives are stated clearly.				
8. The formatting of references is appropriate.				
B. Materials and methods (40%)				
1. Standard procedures are accurately described and referenced.				
2. The materials used in the experiments are clearly described.				
3. Chemicals and their preparations are clearly described.				
4. The flowchart or work plan of the experiment is logical and clear.				
5. The formatting of references is appropriate.				
C. Multimedia production (40%)				
1. The voice of the introducer is clear, and noise is minimal.				



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2. The positioning of the introducer is appropriate.				
3. The lighting and color contrast are appropriate.				
4. The sequence of scenes is logical.				
5. The steps of the procedure are well described.				
6. Materials and chemicals are well defined.				
7. Only necessary information is presented.				
8. A summary is provided.				