

09/03/2023

Nome: ELISA

Cognome: GIORGIO

PROVA ORALE

EG

PROVA ORALE N. 1

1. La/il candidata/o descriva i parametri che caratterizzano i picchi cromatografici.

Informatica:

A cosa serve un programma come Excel?

Inglese:

A pilot in-vitro study was conducted to determine the pH levels of a convenience sample of popular brands of bottled water, tap water and other known acidic beverages in comparison with the pH values reported on the respective manufacturers' website. Each beverage was tested in a laboratory using a calibrated CorningpHmeter model 240, and waters were compared to the corresponding company's test fied pH value. Waters were also compared and contrasted based on their process of purification. The data was then compiled and analyzed descriptively.



09/03/2023

PROVA ESTERMINATA GT

Nome: GERMIANO

Cognome: TAGLIABUE

PROVA ORALE N. 2

1. A cosa serve la mineralizzazione nella spettrometria atomica? Cosa si determina con questa tecnica?

Informatica:

Che cosa è un browser e a cosa serve.

Inglese:

Heavy metals, such as cadmium, copper, lead, chromium and mercury, are important environmental pollutants, particularly in areas with high anthropogenic pressure. Their presence in the atmosphere, soil and water, even in traces can cause serious problems to all organisms, and heavy metal bioaccumulation in the food chain especially can be highly dangerous to human health. Heavy metals enter the human body mainly through two routes namely: inhalation and ingestion, ingestion being the main route of exposure to these elements in human population. Heavy metals intake by human populations through food chain has been reported in many countries.



09/03/2023

PROVA NON ESTRATTA

GT

Nome: GERMANO

Cognome: TAGLIABUÈ

PROVA ORALE N. 3

1. La/il candidata/o esprima che cosa rappresentano le sigle ppm e ppb e che rapporto c'è tra ppm e mg/kg.

Indicare inoltre che differenza c'è tra una bilancia tecnica e una bilancia analitica.

Informatica:

Che cosa si intende per "Sistema Operativo" di un pc? Fare un esempio di software.

Inglese:

Soil threshold for heavy metal toxicity is an important factor affecting soil environmental capacity of heavy metal and determines heavy metal cumulative loading limits. For soil-plant system, heavy metal toxicity threshold is the highest permissible content in the soil (total or bioavailable concentration) that does not pose any phytotoxic effects or heavy metals in the edible parts of the crops that does not exceed food hygiene standards.



09/03/2023

Nome: DARIDE

Cognome: RISTOLPO

PROVA ESTIMATA
AD

PROVA ORALE N. 4

1. Che cosa è la durezza dell'acqua e come si calcola.

Informatica:

Che cosa si intende per parte "hardware" di un pc?

Inglese:

In the current review, we have summarized the recent information (last 10 years) published in the scientific literature (Scopus and PubMed) on the concentrations of polyfluoroalkyl substances (PFAS) in drinking water and the human health risks derived from the regular water consumption, when available. A large amount of data belongs to perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) and corresponds to studies mainly conducted in countries of the European Union, USA and China, although no information is available for most countries over the world.



09/03/2023

PROVA ESTAVATA dh.

Nome: THOMAS MICHAEL

Cognome: MICHELLO

PROVA ORALE N. 5

1. Quali sono le principali forme chimiche di interesse dell'azoto per le acque potabili e come si determinano.

Informatica:

Che differenza c'è tra una mail e una PEC.

Inglese:

The pH values for the tested beverages and bottled waters were found to be predominantly acidic. Ten out of the 14 beverages tested were acidic ($\text{pH} < 7$), 2 municipal (or "tap") waters were neutral ($\text{pH} = 7$) and 2 bottled waters were alkaline ($\text{pH} > 7$). The majority of waters tested had a more acidic pH when tested in the lab than the value listed in their water quality reports.



09/03/2023

PROVA NON ESTRATTA

GT

Nome: GERMANO

Cognome: TAGLIABUE

PROVA ORALE N. 6

1. Come si determina l'Ossidabilità dell'acqua?

Informatica:

Che cosa si intende per parte "software" di un pc?

Inglese:

Per- and polyfluoroalkyl substances (PFAS) are a group of water-soluble chemical compounds with an important number of applications, which have been widely used during the last 60 years. Two of them, perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA), are the most known and well investigated. As for many other organic substances that are of environmental concern, the diet is the main route of human exposure to PFAS. However, in certain cases drinking water may also mean a significant contribution to human exposure, and to a lesser extent, dust and air (indoor exposure).



09/03/2023

Prova estiva VE

Nome: Christopher

Cognome: Massimo

PROVA ORALE N. 7

1. Determinazione di solventi volatili nell'acqua: principale tecnica analitica e accortezze necessarie per il campionamento e la conservazione del campione.

Informatica:

La/il candidata/o porti l'esempio di un software per la realizzazione di testi e di uno per la realizzazione di slide.

Inglese:

In recent years, the environmental persistence of polyfluoroalkyl substances (PFAS), their biomagnification in food webs, as well as their potential accumulation and toxicity, have generated a notable interest, which has been evidenced by the considerable number of publications in this regard. Recently, we carried out a wide revision on the levels of polyfluoroalkyl substances (PFAS) in food and human dietary intake.



09/03/2023

PROVA ESTRATA
Giovanna Bianco

Nome: GIUVANNA

Cognome: BIANCO

PROVA ORALE N. 8

1. La/il candidata/o effettui e argomenta una proposta di controllo di qualità interno del dato analitico durante una sessione di analisi.

Informatica:

Identificare le componenti hardware e software tra i seguenti tre elementi: 1) Scheda Madre; 2) Sistema Operativo; 3) Tastiera.

Inglese:

In addition, the interactions of soil-plant root-microbes play important roles in regulating heavy metal movement from soil to the edible parts of crops. Agronomic practices such as fertilizer and water managements as well as crop rotation system can affect bioavailability and crop accumulation of heavy metals, thus influencing the thresholds for assessing dietary toxicity of heavy metals in the food chain.

