MOOC: ENVIRONMENTAL PROTECTION

MODULE: ENVIRONMENTAL AWARENESS

EXERCISES

1) **Highlight the correct answers.**

The global environmental changes have led to….

Significantly high/low temperature anomalies, increase/decrease of the vertebrates' biodiversity, and increase/decrease of ocean acidification.

2) **Indicate the correct answer.**

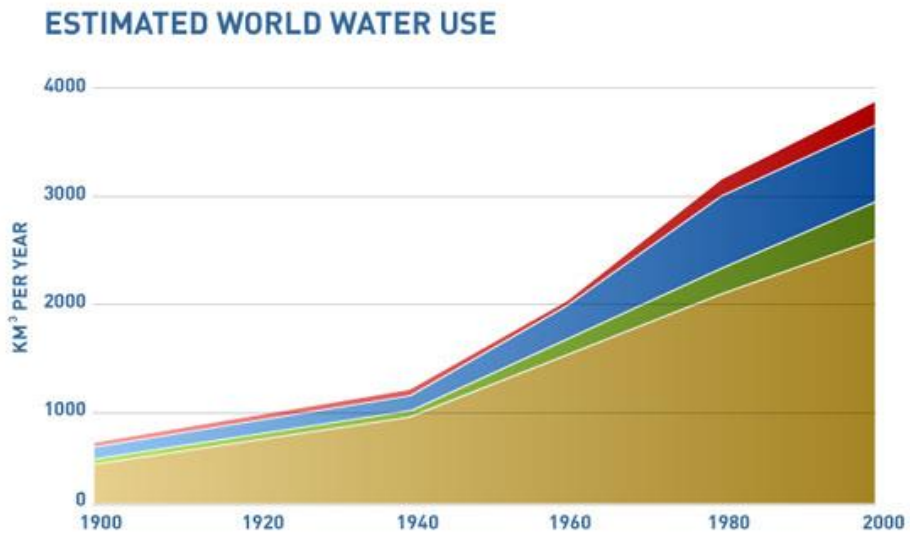
Energy security is defined as:

-a- the continuous availability of energy sources at a negotiable price

-b- the continuous availability of energy sources at an affordable price

-c- the partially available energy sources at an affordable price

3) **Please classify the water use depending on the respective activity (industry, municipal, agriculture, reservoir losses).**



Red:

Blue:

Green:

Yellow:

4) **According to your current knowledge, choose all the drivers of food, water, and energy systems, from the following examples:**

- The population will reach up to 9.7 billion people in 2050
- The temperature anomalies will be minimized
- More and more people prefer to live in urban areas
- Precise agriculture
- Low prices of essential goods
- Food waste management

6) **Indicate the percentage of potable water on earth**

(a) 5%

(b) 2.5%

(c) 3%

7) **Indicate the reasons, which lead to high water, energy and food demands.**

(a) growth of population, fast urbanization, dietary changes, and economic development

(b) growth of population, ecological integrity, conflict interests, and waste management

(c) reuse, responsible solar irrigation, decentralization, economic development

8) **Complete the following sentence.**

Food losses and waste are…

(a) are reduced due to the rising population

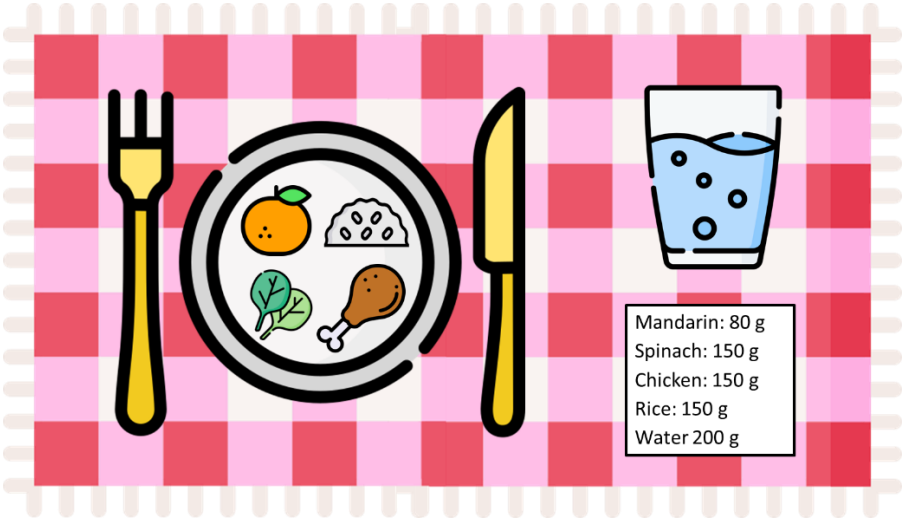
(b) an opportunity lost to increase the world's food nutrition and supply

(c) not a factor in climate change

9) **Highlight the correct answers.**

Solar irrigation is a high/low cost method, with monthly/year-round availability, and centralized/decentralized nature. Their use could result in around 2300-2500 / 5000-5300 hours of continuous daylight energy.

10) **The Nexus footprint of an average meal, where water consumed is expressed in liters, and energy consumed is expressed as the number of hours a 20-watt bulb can run on an equal amount of energy. Please choose the appropriate answer.**



-a- water: 10 liters/energy: 3 hours

-b- water: 105 liters/energy: 15 hours

-c- water: 1090 liters/energy: 69 hours