

التاريخ: 2019/03/04

المدة: 02 سا

المادة: الإنجليزية

المستوى: الثانية ثانوي

اختبار الفصل الثاني

PART ONE: READING

Read the text carefully then do the activities

Hypodronics is the cultivation of plants in water. Plants do not need soil as such: they need only nutrients and moisture contained in the soil, and **these** could be supplied through gravel that contains water.

Hypodronics is not a new process. As long as the 1960 an english physician tried growing plants in water in a laboratory experiment and in the 1800 s German researchers used the method to develop many of the formulas for plants nutrient solution still in use today. About a generation ago hypodronics moved out of the research lab into commercial use.

With reinforced plastic film. The plants are fed by inorganic nutrients dissolved in water **Wich** is supplied by a plastic pipeline. The feeding and watering system is automated. Temperature, humidity and air circulation are carefully controlled. Air conditioning and heating equipment keep the temperature at 29 degrees celsius by day 18 degrees by night. No entry is given to wind, weeds, or insects.

In recent years hypodronic farming has been expanding to many parts of the world particularly in areas **where** water is in short supply and temperatures are too extreme for ordinary agriculture. A hypodronic farm operated by the government of kuwait produces fresh tomatoes at a desert site near the capital city. At puero penasco, and on saadiyat island in abu Dhabi experimental hypodronic farms use seawater that is desalted by special installation on the coast.

Coprehension and interpretation (8 pts)

1) What is the text about ? choose a, b or c.

the text is about

a- an experiment. b- greenhouses. c- soil nutrients.

2) Say whether these statements are true or false.

- Soil is very important for hypodronics.
- English were the first to discover hypodronic farming.
- The temperature kept by conditioning and heating equipment is not the same all the time.
- Hypodronic farming is used only in countries of the Gulf.

3) In which paragraph is it mentioned that.....

- Hypodronics is developed especially in hot countries?.
- Hypodronics is not a new experiment?.

- 4) What do the underlined words refer to in the text?
 a) These (§1) → B) Which (§3) → C) Where (§4) →
- 5) Answer the questions according to the text.
 a) How are plants nourished in a hydroponic greenhouses?
 b) Why hydroponics developing in hot countries?
 c) Do the experimental hydroponic farms in Abu Dhabi use seawater as it is?.

Text exploration (07 pts)

1) Match words with their definition.

Words	definition
1- Nutrient	a- A stock or a quantity of something which is asked for.
2- Moistur	b- A substance that serves as or offers nourishment.
3- Process	c- A Condensed vapor on the surface.
4- Supply	d- A method especially the used in manufacture or industry

- 2) Which adjectives can be derived from these words.
 Produce – use – change – exploitation.
- 3) Write sentence (b) so that it means the same as sentence (a).
 - we must develop farming methods in the Sahara or we won't satisfy people's supplies.
 - Inorganic nutrient
- 4) Put the stress mark on the right syllable.
 Hydroponics – cultivation – physiology – inorganic.
- 5) Complete the following dialogue.
 a)
 b) No, it is not a good idea to apply hydroponic farming in Algeria
 c)
 d) Because the Algerian soil is very rich.
 e)
 f) I agree with you, Algeria must increase its agricultural products, but by using that kind of farming.
 g)
 h) I think we should provide farmers with modern materials.

Written expression (05 pts).
Choos one of the folloing topics.

Topic one:

Write a paragraph about foods groon by hipodronic technique.Do you think that they are nutritious as those grown in the soil?

Topic tow :

Write a composition of about 80 to 120 words on the advantages of hipodronics.
Use the notes below.

- * Can be solution to farming in desert areas.
- * A limited number of workers because of automation.
- * Rapid growth of plants.
- * Better protection of plants from climatic changes.



Good luck