



Answer all the following questions (90/70 marks)

(60/45 marks)

Write the following statement Correct or false.

- 1- Deserts do not address the desertification phenomenon directly
- 2- All deserts have in common is that they are arid, or dry.
- 3- Deserts are areas that receive no precipitation.
- 4- The rate of evaporation in a desert exceeds the annual rainfall.
- 5- Desertification laws are effective
- 6- The world is home to around 1 billion people.
- 7- Agriculture Law No.53 (1966) Concerned with the protection of the

Question 1:

Determine if

- 1- All legislative
- 2- One thing a
- 3- Deserts are
- 4- The amount
- 5- Combat De
- 6- Deserts are
- 7- The Agricu

Date: 18/1/2024

Faculty of Science

Time: 2 hours

Environmental Sciences Department

Final Exam of First Semester

Desert and desertification (45/45)

- 1- The desertification and the expansion of desertification phenomenon
- 2- The great responsibility is the desert because of the variation of clouds.
- 3- Deserts have usual landscapes, like dunes, peaks, rock formations, and canyons.
- 4- Rain is usually the main source of water in a desert.
- 5- Programs for rehabilitation of lands Established agro-climatic stations and land use planning and environmental monitoring stations.
- 6- Desert plants grow far apart for adaptation.
- 7- The Food and Agricultural Organization (FAO) trials on soil and water conservation works in Wadi Shalah and Wadi Tawella.
- 8- Expanding cultivation of field crops, especially winter crops followed by fallow summer, causing considerable degradation of the natural ecosystem.
- 9- Animals that have adapted to a desert environment are nocturnal.
- 10- Many desert birds are restricted to river banks.
- 11- Salinity build-up has reduced fisheries production, the productivity of the land base, and the palatability.
- 12- Coastal Deserts caused by the circulation patterns of air masses.
- 13- Lowering of water table used to Combat Desertification.
- 14- Hot dry air rises into the atmosphere near the Equator.
- 15- When moisture-laden air hits a mountain range, it is pushed toward



- 22- Parts of the Arctic and the Antarctic are classified as deserts.
- 23- The largest desert in the world is the coldest.
- 24- Human activities are a primary cause of desertification.
- 25- Developing new technologies causing desertification.
- 26- Decrease in vegetation cover is one of desertification Physical indicators.
- 27- Reduction in fertilizer and pesticides combat desertification
- 28- Egypt is endowed with three main agro-ecological zones.
- 29- Egypt ratified UNCCD in 1997.
- 30- The UNCCD defined desertification as land degradation in the arid, semi-arid, and sub-humid areas resulting from various factors, including climatic variations and human activities.

Question 2:

(22/17 marks)

Complete the following sentences

- 1- The first commitment of the countries that ratified the UNCCD is to
- 2- UNCCD defined combating desertification as activities that aimed at, and
- 3- Egypt has a total area of about under and climatic
- 4- A process of turning the productive land into desert is
- 5- Change in land use/water use is indicators of desertification while alteration of key species distribution and frequency is indicators
- 6- is deplete (soil) by growing crops continuously on it.
- 7- is a new technology are also being developed to combat desertification
- 8- are a primary cause of desertification
- 9- and remove plants that anchor the soil
- 10- The UNCED defined desertification as in,, and resulting from various factors, including and

Question 3:

(8 marks)

Illustrate effects of desertification using flowchart only.

Best wishes Dr. Doaa Elemam