



**Final Examination in Botany**  
**Second Term: Jun. 2015**

Educational Year: Third Level      Program (Branch): Environmental Sciences  
Subject: ( 324 ع ب )      Course(s): Plant community & Desert Habitats  
Time: 2 hrs      Date: 4 / 6 /2015      Full mark: 60      Question mark: 20

Answer the Following Questions:

**Q.1:** Write on **Two Only** of the following: (20 marks)

- A- Characteristic community composition.
- B- Clements classification of plant community.
- C- Quadrat methods of sampling vegetation.

**Q.2:** A- Complete the following sentences: (10 marks)

- 1- The final stage in evolution of vegetation is referred as ....., while the first stage is called .....
- 2- According Raunkiaer life-form system, Cryptophyes are classified into ....., ..... and .....
- 3- The point method is of two types ..... and .....
- 4- The number of individuals of species per unit area is called .....
- 5- In phytosociology, two sets of characters are ..... and .....

B- Answer each of the following either true (✓) or false (×): (10 marks)

- 1- In desert, annual plants are the most common plant life-form.
- 2- Spines and hairs cover the surface of xerophytes for camouflage tool.
- 3- Xeroplastic adaptations are inherited whether the xerophyte grows in xeric conditions or not.
- 4- Desertification causes a decline in biological diversity.
- 5- Physical drought is the presence of water in an excess amount but not available to plants.
- 6- Deserts are formed wherever evaporation exceeds precipitation.
- 7- Desert regions can contain more than one sand dune type.
- 8- In xerophytes, the ratio between root and shoot size is balanced.
- 9- Wind erosion can only occur in desert regions.
- 10- Sunken stomata in xerophytes are a tool to control water loss.

**Q.3:** Write on the following: (20 marks)

- 1- Classification and anatomical adaptation of xerophytes.
- 2- Desertification.