

Q1/ Numerate the following.

(30marks)

- 1- Plants are classified by tolerance and requirements for moisture to four groups.
- 2- Agricultural production depends on.
- 3- Differs amount of reflected solar radiation and penetration into the forest and exploited by trees depending on many factors, including.
- 4- Trees and shrubs of forests according to their tolerant to shade with one example.
- 5- Decrease amount of moisture under minimum moisture of soil causes to.
- 6- Meteorology is divided into several major sections.

Q2/ Answer the following True or False and corrected the False statements. (25marks)

1. Length of light waves measured by apparatus called LuxMeter.
2. In the form of icy crystals with surface of water has not been completed to freezing is called Snow Storms.
3. Pedosphere It includes the earthy layer which its thickness varies from place to place, and it is lack in some area that exposed to sever erosion.
4. Water is the foundation for plants growth and cannot do any process without it for a long time.
5. Photosynthesis ratio is equal to respiration ratio, plants will be died.

Q3/ Define the following terms (only 5).

(25markes)

- 1- Albedo. 2- Forest Ecology. 3- Atmosphere.
- 4- Hydrologic Cycle. 5- Meteorology. 6- Hail

Q4/ Answer the following questions.

(20 marks)

- 1- Why conifers (needle trees) which have Pyramidal form affected by snow less than trees with Flat Crown or trees with Many Side Branches?
- 2- What's the difference between Top light and Bottom light?
- 3- Why Maximum Moisture is danger for trees and plants?

Q5/ Chose correct answer for the following blanks.

(30marks)

- 1- Soil temperature can be measured by using _____ at different depths below the ground.
a- Radiometer b- Anemometer c- thermometer d- LuxMeter
- 2- Consumers are the _____ organisms that obtain their energy by consuming other organisms.
a- Autotrophic b- heterotrophic c- Herbivores & carnivores d- b & c
- 3- Wind which is their speed is _____ called storm wind.

a- 90 km/ h or more b- 20km/h or more c- 5km/h d- 60km/h

4- Tropical trees, such as _____ require warm temperatures and high levels of rainfall throughout the year.

a- mahogany b- oak c- Douglas fir d- blueberry

5- Effect of wind in _____ season will be more than in other seasons.

a- spring and summer b- summer and autumn c- autumn and winter d- winter and summer

6- _____ play a crucial role in forest ecology by consuming the energy and biomass produced by the primary producers, regulating population sizes, controlling nutrient cycling, and maintaining the balance of the forest ecosystem.

a- Producers b- Consumers c- a & b d- Decomposers