## KERALA AGRICULTURAL UNIVERSITY B.Sc. Hons (Ag) 2010 Admission IV<sup>th</sup> Semester Final Examination, July /August 2012

Marks: 80 Time: 3hours
(10 x1=10)
al ATP molecules are utilized. D) Cycocel deficiencyTrue/False alse ose in the presence of α-
$(10 \times 3 = 30)$
vestable maturity. yound respiration.

## III. Write short essays on any six of the following

 $(6 \ge 5 = 30)$ 

- 1. Explain the factors affecting photosynthesis and respiration
- 2. Explain the components of water potential.
- 3. Explain Seed dormancy, Causes of dormancy and measures for breaking dormancy.
- 4. Explain foliar nutrition and hydroponics. Give their advantages and disadvantages.
- 5. Explain the methods of testing seed viability and vigour.
- 6. Importance of crop physiology in agriculture.
- 7. Explain photoperiodism and vernalisation in relation to crop productivity.
- 8. Biosynthesis and mode of action of ABA and Ethylene.
- IV. Write short essays on any one of the following

 $(1 \times 10 = 10)$ 

- 1. Briefly discuss about the physiological role of mineral nutrition in crop growth and development.
- 2. Explain in detail the photosynthetic electron transport system (PETC) in plants.