KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. Degree Programme 2014 Admission

IVth Semester Final Examination-July 2016

Cat. No: Crps 2201 **Marks: 50.00**

Title: Crop Physiology (2+1) **Time: 2 hrs**

I Fill up the blanks **(10 x 1 =10)**

1. The element which is easily available under alkaline pH_____
2. _____ is the first stable product of the dark reaction of photosynthesis in C3 plants.
3. The organelle concerned with oxidative phosphorylation _____
4. _____ is the source of O_2 during photosynthesis.
5. _____ is the latent heat of vaporization of water.
6. Translocated form of photosynthesis in plants is _____
7. The present day CO_2 concentration in the atmosphere is _____
8. An example for cultivated CAM plant is _____
9. _____ is the instrument used for measuring transpiration rate.
10. The hormone which induces seed dormancy _____

II Write short notes ANY FIVE **(5 x 2 =10)**

1. Differentiate C3 & C4 plants.
2. Photosynthetic pigments.
3. Antitranspirants.
4. Differentiate absorption spectrum and active spectrum.
5. I.S.T.A standards of seed storage.
6. Structure and function of chloroplast
7. Vernalization.

III. Explain ANY FIVE of the following **(5 x 4 =20)**

1. Describe the photoperiodic classification of plants.
2. Changes associated with fruit ripening. Discuss the methods to delay ripening.
3. Alternate respiration.
4. Hydroponics and its significance.
5. Mechanism of abscission and its significance.
6. Biosynthesis of GA.
7. Photophosphorylation.

IV. Write essay on ANY ONE ***(1 x 10=10)***

1. Write a note on the commercial application of plant growth regulators.
2. Discuss the classification of nutrients based on physiological functions and mention the associated function of each nutrient.

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