KERALA AGRICULTURAL UNIVERSITY
B. Tech. (Agrl. Engg.)
I Semester Final Re - Examination – February 2026
2023 & Previous Admissions

Sacs.1105 **Principles of Agronomy (2+0)** **Marks: 50**
Time: 2 hours

I **Fill in the blanks** **(10x1=10)**

1. .....is the branch of agricultural science which deals with principles and practices of soil, water and crop management.
2. .....is the manipulation of soil with tools and implements.
3. .....is considered as father of tillage
4. FYM is a .....organic manure.
5. Dehulled but unpolished rice is called .....rice.

State True or False

6. For rice grain storage moisture content should be 12 %
7. In world most extensive rice growing areas are within 45^0 N and 40^0 S latitude.
8. In sustainable agriculture, soil health is maintained for long term and it is ecologically sound.
9. Depth of sowing of wheat should not be more than 7 cm
10. Straight fertilizers are chemical substances that contain more than one nutrient.

II **Write short notes on ANY FIVE of the following** **(5x2=10)**

1. Soil organic matter
2. Net irrigation requirement and Gross irrigation requirement of crops
3. Conservation tillage
4. Crop coefficients and soil water plant relationship
5. Differences between weather and climate
6. Significance of solar radiation on crop production
7. Define cropping system and cropping pattern.

III **Answer ANY FIVE of the following** **(5x4=20)**

1. Describe briefly the objectives of tillage.
2. Functions of nitrogen and its deficiency symptoms
3. Define Intercropping and its objectives and advantages.
4. Crop rotation and characteristic of good crop rotation
5. Goals of sustainable agriculture
6. Objectives and need for integrated nutrient management
7. Precision agriculture and its advantages

IV **Write an essay on ANY ONE of the following** **(1x10=10)**

1. Agronomic or economic classification of crops
2. Describe briefly the objectives of organic farming and benefits of biofertilizer in organic farming.

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