



KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Hons.) Ag. 2017 Admission
I Semester Final Examination-February-2018

Agro.1101

Fundamentals of Agronomy (2+1)

Marks: 50
Time: 2 hours
(10x1=10)

I Choose the Correct Answer

- 1 Father of tillage-----
a Jetro tull b Liebig c Boussingault d Van Helamont
- 2 One of the following is not a primary tillage implement
a Wooden Plough b Mould board plough
c Disc plough d Harrow
- 3 International Rice Research Institute is at-----
a Philippines b India c China d Japan
- 4 The word Agro means-----
a Field b Soil c Crop d Management
- 5 The concept of 'water is the sole requirement of plant' was proposed by-----
a Wilcox b Baptiste Van Helmont c Blackman d Jetro tull
- 6 Which of the following is a partial stem parasite-----
a Orabanche b Amaranthus sp. c Striga d Loranthus
- 7 ----- is an odd man among the following
a Boron b Magnesium c Calcium d Sulphur
- 8 Stem modulating green manure plant-----
a Sesbania b Sunhemp c Glyricidia d Pongamia
- 9 Amide form of nitrogenous fertilizer is-----
a DAP b Urea c Ammonium sulphate d CAN
- 10 Tobacco belongs to the family-----
a Malvaceae b Tiliaceae c Solanaceae d Aeateraceae

II Write Short notes on ANY FIVE of the following

(5x2=10)

- 1 Role of Agronomist
- 2 Green manuring and its types
- 3 Critical period of crop weed competition
- 4 Uses of weeds
- 5 What is the role of water in plant growth?
- 6 Mention different herbicide formulations with one example for each
- 7 Ideotypes

III Answer ANY FIVE of the following

(5x4=20)

- 1 Agronomic classification of crops with one example for each.
- 2 Criteria of essentiality of plant nutrients and their classification.
- 3 Differentiate the following
a Soil fertility and soil productivity
b Organic manures and chemical fertilizers

- 4 Discuss on land capability classification and rating of soil for crop productivity.
- 5 What are the important functions of N, P, K and S nutrients?
- 6 Explain the factors influencing the time and method of fertilizer application.
- 7 Discuss on different methods of sowing with their advantages and disadvantages.

IV

Write an essay on ANY ONE of the following

(1x10=10)

- 1 Tillage on the lines given below
 - a Objectives
 - b Principles and concepts
 - c Types of tillage with example
 - d Prospects of conservation tillage in Indian condition
- 2 Discuss on various factors influencing the crop growth.
