

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry 2012 Admission

Vth Semester Final Examination- February -2015

Cat. No: Safo.3112

Marks: 80

Title: Soil survey and Wasteland Development (1+1)

Time: 3 hours

I. a. Fill up the blanks

(5x1)= 5

10.00

1. The current area under wastelands in India is _____ M. ha
2. Size of the gravel is _____
3. Vertical section of soil is _____
4. Amelioration of salt affected land are of _____ types
5. The net area under cultivation in India is _____ M.ha

b. State True or False

(5x1)= 5

1. National Remote sensing agency was started in the year 1985
2. Agroclimatic zones are basis for species selection in afforestation programmes
3. The land suitability classification is purely based on technical suitability
4. In wastelands the biomass production is more than 20% of its potential
5. Production of forest plantation is in land use capability classification-III

II Write short notes/answers on ANY TEN of the following

(10x3)

30.00

1. Gullies and ravines
2. Land evaluation
3. Soil profile inversion
4. Rehabilitation of degraded lands
5. Integrated Wasteland Development Programme
6. Tree species suitable for mined area
7. National Wasteland Development Board
8. Chemical characteristics of saline soils
9. Marshy and swampy lands
10. Types of reclamation for alkaline soils
11. Wastelands in India
12. Use of remote sensing in wastelands

III Write short essays on ANY SIX of the following

(6x5)

30.00

1. Write the characteristics of wastelands
2. Soil sampling methods
3. Tree species in saline soils
4. Wastelands-precursor of desertification
5. Central Soil Salinity Research Institute and its mandate
6. Factors in species selection for degraded land rehabilitation
7. Role of NGO's in wasteland development
8. Objectives of soil survey

IV Write essay on ANY ONE of the following

(1X10)

10.00

1. Write in detail about land use capability classification
2. Write in detail about reclamation and planting techniques followed in snow and rocky hills.