KERALA AGRICULTURAL UNIVERSITY

B.Sc. Hons (Ag) 2010 Admission
IVth Semester Final Examination, July /August 2012

Cat. No: Agro.2207
Title: Field crops – II (1+1)

Marks: 80
Time: 3hours

I. (A) State TRUE or FALSE

5x1=5.0

1. *Kaempferia galangal* belongs to *Malvaceiae* family
2. Ground nut and safflower are the two important oil seed crops of India
3. Mustard requires cooler temperature for optimum growth and development
4. Desi type of gram is widely spaced compared to kabuli type
5. 500 g of tobacco seed is required to cultivate tobacco in 1 ha

(B) Fill up the blanks

5x1=5.0

1. ....pulse crop is grown for grain, fodder and green manure
2. Palmarosa oil is used in the production of ....
3. ....is the major amino acid present in soybean
4. The fruit of mustard is called ....
5. ....acid is present in freshly harvested sugar beet tops

II. Write short notes (any ten)

10x3=30.0

1. Ginning in cotton
2. Economic importance of lemongrass.
3. Retting in Jute
4. Nipping in chickpea
5. Hand pollination in sunflower
6. Sett treatment in sugarcane
7. Gypsum application in groundnut
8. Perennial red gram
9. Bad boll opening
10. Significance of Boron in sunflower
11. Use of organic clarificants in jaggery preparation
12. Queen of oil seed crop

III. Answer the following (Any six)   6x5=30.0

1. Write about the ratoon management in sugarcane
2. Constraints for low productivity of oil seeds in our country and measures to mitigate it.
3. Write the origin, botanical description and soil and climatic requirements for cowpea.
4. Mention two varieties each for the following with their characteristics.

   a) Cowpea (b) Groundnut (c) Sunflower (d) Sugarcane (e)Betel vine

5. Write the agronomic practices to increase groundnut yield.
6. Write the integrated nutrient management practices in cotton.
7. Why seed setting is a problem in sunflower, mention the methods to improve it.
8. Write the soil and climatic requirement, harvesting and processing in Jute.

V. Write essays on any one   10x1=10.0

1. Detail package of practices for chickpea and sesamum OR
2. Betel vine and Tobacco