



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Ag.**  
**Re-examination - July 2019**  
**2012 and previous admission**

Agro.2207

Field Crops II (1+1)

**Marks: 80**  
**Time: 3hours**

- I Fill in the blanks** **(10x1=10)**
- 1 Contender is a popular variety of.....
  - 2 The stability of sesame oil is due to the presence of two powerful antioxidants, viz .....and.....
  - 3 .....is known as biological plough due to its soil restorative properties.
  - 4 *Vigna umbellate* is..... bean.
  - 5 Lentil is also called as.....
  - 6 In cotton, long fibre is called.....
  - 7 Centre of origin of ground nut is.....
  - 8 A sugarcane crop is ready for harvest when it attains a minimum of .....sucrose and .....% purity.
  - 9 The pungent principle in chilli.....
  - 10 Jute fibre is obtained from ..... part of the plant.
- II Write Short notes on ANY TEN of the following** **(10x3=30)**
- 1 GM cotton.
  - 2 Retting and fibre extraction in jute.
  - 3 Topping and desuckering in tobacco.
  - 4 Nipping in chick pea.
  - 5 Byproducts of sugar industry.
  - 6 Detrashing and propping.
  - 7 Water shoots in sugarcane.
  - 8 Irrigation scheduling in sugarcane.
  - 9 Sunflower capitulum.
  - 10 Harvesting and threshing in castor.
  - 11 Tobacco nursery.
  - 12 Role of pulses in sustainable agriculture.
- III Answer ANY SIX of the following** **(6x5=30)**
- 1 Soybean is called a 'Wonder crop'. Substantiate.
  - 2 Write about the soil and climatic requirements of sesame.
  - 3 Narrate the causes for varietal degradation and measures for varietal rejuvenation in sugarcane.
  - 4 Flowering is not desirable in sugarcane. Substantiate and explain the techniques to prevent it.
  - 5 Discuss the techniques for prevention of lodging in sugarcane.
  - 6 Explain the specific problems in cotton cultivation.
  - 7 Write the soil and climatic requirements of sugarbeat.
  - 8 Briefly outline the different planting systems in sugarcane.
- IV Write an essay on ANY ONE of the following** **(1x10=10)**
- 1 Discuss the importance of oil seeds in human nutrition and farm economy and explain the constraints and opportunities in enhancing productivity.
  - 2 Discuss in detail the scope and importance of commercial cultivation of medicinal plants in Kerala.