

# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2011 Admission

VI<sup>th</sup> Semester Final Examination- July/Agust-2014

Cat. No: Hort.3206

Marks: 80

Title: Spices and Medicinal Plants (1+1)

Time: 3 hours

I) State True or False / Choose the Answer /name the following

(10 x 1=10)

1. Over 60 percent of pharmaceuticals are of a plant origin
2. Aqueous extracts of *Dioscorea composita* has nematocidal action against root -knot nematode *M. incognita*
3. Non-spiny temperate species *Solanum lacinatedum* has high solasodine content as compared to tropical species *S. viarum*
4. Sandal oil is extracted from sap wood
5. Father of Modern medicine is
  - a) Aristotle
  - b) Hippocrates
  - c) Theophrastus
  - d) Galem
6. The common fox glove is
  - a) *Digitalis lanata*
  - b) *D. thapsi*
  - c) *D. purpurea*
  - d) *D. grandiflora*
7. Lemon grass is
  - a) *Cymbopogon flexuosus*
  - b) *C. citratus*
  - c) *C. winterianus*
  - d) *C. martini*
8. Best quality oil in patchouli is obtained from the cultivar
  - a) Johore
  - b) Singapore
  - c) Indonesia
  - d) India
9. Non-narcotic variety of Opium
10. Variety of Kacholam having high oleoresin content released by KAU

II Write short notes on ANY TEN

(10 x 3=30)

1. Distinguish between *Plumbago rosea* and *P. zeylanica*
2. Differentiate between *Dioscorea spp.* and *Solanum viarum*
3. Differentiate between cultivation of fox glove in kodaikanal and Solan
4. Differentiate between *Rauvolfia serpentina* and *Catharanthus roseus*
5. Differentiate between floral concrete and absolute
6. Differentiate between Hydro distillation and steam distillation
7. Botanical varieties of Cardamom
8. Training in cinnamon
9. Bee keeping in cardamom plantations
10. Role of aromatic plants in Indian economy
11. Commercial vetiver types and their salient features
12. Blue gum

**III Write short essays on ANY SIX of the following**

**(6 x5=30)**

1. Medicinal properties and importance of kacholam
2. Medicinal properties and importance plumbago
3. Production technology of ginger
4. Vegetative propagation in nutmeg
5. Uses of mint oils
6. Harvesting and extraction of essential oil in Patchouli
7. Nursery techniques and mainfield planting of menthol mint
8. Parasitism in sandal

**IV Write essay on ANY ONE**

**(1 x10=10)**

1. Chemotypes in *Ocimum* spp.
2. Discuss in detail about the production of quality planting material in black pepper

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