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INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO, RAJAGIRIYA  
LEVEL II BUMS- SECOND SEMESTER EXAMINATION - MARCH 2016  
AGRO TECHNIQUES OF MEDICINAL PLANTS  
COURSE CODE - IA 2206

Time: 1 ½ hour  
 1.45 p.m. - 3.15 p.m.

Index No:

Answer all questions.

1. a. Name 05 medicinal plants which have commercial potential for cultivation in Sri Lanka.

Botanical name	Common name
i. ....	.....
ii. ....	.....
iii. ....	.....
iv. ....	.....
v. ....	.....

(05 marks)

1. b. Name 5 asexual (Vegetative) propagation methods

- i. ....
- ii. ....
- iii. ....
- iv. ....
- v. ....

(05 marks)

c. Categorize medicinal plants into 2 categories according to their preference for sunlight (Sun loving/shade loving) and give 5 examples for each category.

Shade loving plants

Botanical name

Common name

- i. ....
- ii. ....
- iii. ....
- iv. ....
- v. ....

- .....
- .....
- .....
- .....
- .....

Sun loving plants

Botanical name

Common name

- i. ....
- ii. ....
- iii. ....
- iv. ....
- v. ....

- .....
- .....
- .....
- .....
- .....

d. Define aftercare operations of medicinal plants cultivation

- .....
- .....
- .....
- .....
- .....

02. a. What is tissue culture?

- .....
- .....
- .....
- .....

b. What do you mean by *in vivo* and *in vitro* techniques in tissue culture?

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(04 marks)

c. List four applications of tissue culture?

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(04 marks)

d. Define cell -totipotency.

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(04 marks)

e. Write four uses of cell suspension cultures?

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(04 marks)

### Essay Questions

1. Describe different methods of micropropagation. (20 marks)
  
2. a. Describe the role of plant tissue culture in herbal medicine (10 marks)
  
- b. Define a "medicinal plant" and describe the agro technology of medicinal plants (10 marks)

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25.04.2016