

KATHMANDU UNIVERSITY
End Semester Examination
June/July, 2023

Marks Scored:

Level : B.Sc.

Year : II

Exam. Roll No. :

Time: 30 mins.

Course : AGES 213

Semester: II

F.M. : 10

Registration No.:

Date : July-12

SECTION "A"

[20Q. × 0.5 = 10 marks]

Encircle the most appropriate alternative from each set of choices.

- Which is not present in the Trikatu powder formulation?
a. Amala b. Ginger c. black pepper d. long pepper
- Nighantu is an ancient hand written literature which explains about medicines of.....
a. Plant origin c. Mineral origin
b. Animal origin d. All of the above
- Which is not highly involved in medicinal and aromatic plant?
a. DPR (Department of plant resources)
b. DDA (Department of drug administration)
c. Nepal Agriculture Research Council (NARC)
d. Herbs Production and Processing Company Limited (HPPCL)
- Centella asiatica* is.....
a. Herb b. Shrub c. Tree d. Climbers
- Which one is the traditional medicinal system of Japan?
a. Kampo c. Chinese Traditional Medicine system
b. Ayurveda d. Unani
- Select the medicinal plant, the rhizome of which is used for medicinal purposes.
a. *Acorus calamus* c. *Aloe vera*
b. *Justicia adhatoda* d. *Cinnamomum tamala*
- Pitta is made up of.....
a. Fire and water c. Air and earth
b. Fire and earth d. Air and water
- According to Unani, Balgham is.....
a. phlegm b. yellow bile c. black bile d. blood
- Which herb is known for improving memory and intelligence?
a. *Centella asiatica* c. *Curcuma longa*
b. *Acorus calamus* d. *Panax ginseng*
- Which is not in-situ conservation method of MAPs?
a. national parks c. biosphere reserves
b. sanctuaries d. botanical gardens

11. *Justicia adhatoda* is.....
 a. herb b. shrub c. tree d. climbers
12. What is wrong about COPD?
 a. COPD produces more mucus and phlegm compared to asthma
 b. COPD is a progressive disease, which means it gets
 c. COPD is mainly due to damage caused by smoking
 d. COPD may develop at any age
13. Medicinally useful part of Liquorice (*Glycyrrhiza glabra*) is.....
 a. Root b. Stem c. Leaf d. Floral bud
14. Which one is not underground stem?
 a. Bulbs b. Tubers c. Rhizomes d. Stolons

Fill in the blanks.

15. Classification based on Ethnobotany is also called
16. Natural drugs are the drugs obtained from plant, animals and
17. plant contains quinine which is an antimalarial compound.
18. According to Ayurveda balance of body and mind can be achieved by balance of in the body.
19. In Unani, "humoral theory" describes the wet and dry characteristic of
20. Full form of HPLC is

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Time : 2 hrs. 30 mins.

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F. M. : 40

SECTION "B"

(Short answer questions)
[6Q. × 4 = 24 marks]

Attempt *ANY SIX* questions.

1. What are the four constraints for the development in the field of medicinal and aromatic plants? Give the classification of medicinal plants according to habit with suitable examples. [2+2]
2. How do you determine acid-insoluble ash of herbal materials?
3. What is homeopathy? Write about the two principles of Homeopathy. [1+3]
4. How the knowledge of ethnomedicine help in modern drug development?
5. What is COPD? Describe the habitat and morphology of Ginseng (*Panax ginseng*) along with its role in COPD. [1+3]
6. Draw the diagram of anisocytic type of stomata. Write about advantages and disadvantages of sexual propagation of plant. [1+3]
7. Explain how amalaki can be prepared at home. Write two applications of size reduction of herbal drugs. [3+1]

SECTION "C"

(Long answer questions)
[2Q. × 8 = 16 marks]

Attempt *ANY TWO* questions.

8. What type of government body is DPR? Explain its role.
9. Explain the role of B.Sc. Agriculture Sciences graduates for production of large quantities of MAPs in Nepal to fulfil the demand of national herbal industries.
10. Explain the steps of preparing specimen for the microscopy study of herbs/medicinal plants.