

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

M.Sc.(Medicinal Plants) First Year Examination - July - 2018

Botany

Date: 30-07-2018
Monday

Time: 10:00 A.M. to 01:00 P.M.
Marks: 100

Note :-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.

- 1 Give short note on the following.
Catkin, Compound leaves, Arka flower, Storage root and Capsule fruit.
- 2 Give comparative characters of following.
Thalamiflorae - Disciflorae
Annonaceae - Minispermaceae
- 3 Give silent features of the family Tiliaceae, classify systematically. Detail any two plants.
- 4 A) Ecological grouping of plants with examples.
B) Leaf Phyllotaxy
- 5 Write short notes on **any two** of the following :
(A) Define Inflorescence types with examples.
(B) Give a chart of Bentham and Hooker classification with merits and demerits.
(C) Define Dyes and three plant obtaining dyes.
- 6 Give any two plants from order Asterales with systematic classification, part used and uses.

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M.Sc.(Medicinal Plants) First Year Examination - July - 2018

Dravyaguna

Date: 31-07-2018
Tuesday

Time: 10:00 A.M. to 01:00 P.M.
Marks: 100

Instructions : 1. Attempt any five questions.
2. All questions carry equal marks.

1. Write the botanical name, two synonyms with their elucidation, major therapeutic indications and prescribed dose and two frequently prescribed formulations containing the drug as major ingredient of the following drugs.

1. Vatsanabha 2. Guduchi 3. Nagakeshara 4. Nimba

2. Write the botanical name, distribution, varieties, major chemical constituents and dosha karma of following dravya.

1. Gokshura 2. Kutaja 3. Punarnava 4. Chitraka

3. Write the Latin name, market name, parts used, prescribed dose, major therapeutic indications of following drugs

1. Kupilu 2. Vaca 3. Bibhitaki 4. Ativisa

4. Write about various parts of medicinal plants used in as a crude drug in Ayurveda with examples

5. Write short notes on

a. Eight branches of Ayurveda b. Rasa c. Rasayana d. Kwatha Kalpana

6. Write Latin name, two synonyms, major therapeutic indications, common adulterants and formulations of at least two plants from following family.

1. Malvaceae 2. Dipterocarpaceae 3. Rutaceae 4. Anacardiaceae

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M.Sc.(Medicinal Plants) First Year Examination - July - 2018

Medicinal Plant Cultivation

Date: 01-08-2018
Wednesday

Time: 10:00 A.M. to 01:00 P.M.
Marks: 100

Note :-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.

- 1 Discuss in detail about various methods of irrigation with suitable examples and diagrams.
- 2 Discuss various methods of land preparation for the cultivation of different medicinal plants with suitable examples.
- 3 How Desha is classified ? Discuss various types of Desha and add the population.
- 4 Give GAP and GCP of following medicinal plants (**any five**).
 - (A) Ashwagandha.
 - (B) Shatavari.
 - (C) Amalaki.
 - (D) Amla.
 - (E) Chitraka.
 - (F) Kumari.
- 5 What is Vrikshayurveda ? Give the relation with Ayurveda, Give various plants parts with their synonyms functions and different types.
- 6 Give the details of the harvesting collection, processing and storage practices of Arjuna, Ashoka and Brahmi.

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M.Sc.(Medicinal Plants) First Year Examination - July - 2018

Pharmacognosy

Date: 02-08-2018
Thursday

Time: 10:00 A.M. to 01:00 P.M.
Marks: 100

Note :-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.

1. Give detail account on crystals with suitable examples.
2. What is Anthraquinone ? Discuss any two leaf drugs containing them.
3. Write an essay on secondary metabolites.
4. Write a note on the following :
 - (A) Enflourage.
 - (B) Adulterants of clove.
 - (C) Types of Aloe.
 - (D) Terpenless volatile oil.
5. Write a note on polysaccharides and discuss how Guduchi is important in Ayurved..
6. Write a note on Tannin. What is Triphala ? Discuss the morphological identification characters of each drug, give their biological source, family, chemical constituents, uses and describe its importance in Ayurved.
7. Answer the following :
 - (A) Forth Number.
 - (B) Marine as a source of drug.
 - (C) Differentiate swet and Krishna Jeerak.

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M.Sc.(Medicinal Plants) First Year Examination - July - 2018

Phytochemistry

Date: 03-08-2018

Friday

Time: 10:00 A.M. to 01:00 P.M.

Marks: 100

Note :-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.

- 1 Define Chromatography. Enumerates the various techniques of Chromatography. Discuss Thin Layer Chromatography in detail.
- 2 Explain role of Infrared (IR) Spectroscopy in Phytochemistry.
- 3 Explain Turbidometry and Nephelometry in detail.
- 4 Discuss the extraction and isolation of Carbohydrates from Medicinal plants.
- 5 Write note on Radioactive Microbial contaminations in Pharmaceuticals and Medicinal plants in detail.
- 6 Write short notes on any TWO of the following:
 - (A) Explain spin spin coupling NMR.
 - (B) Discuss pH metry.
 - (C) Quality control of Pharmaceutical and Ayurvedic products in detail.
