

[KY 347]

MAY 2011

Sub. Code: 2908

M.PHARM. DEGREE EXAMINATION
(Regulations 2010)
(For candidates admitted from 2010-2011 onwards)

FIRST YEAR

BRANCH III – PHARMACOGNOSY

PAPER II – PHARMACOGNOSY

Q.P. Code : 262908

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on :

(6 x 10 = 60)

1. Principles, Rationales and technology involved in the production of Herbal cosmetics.
2. Cultivation and Preparation of Davana and Cardamom.
3. Review the status of traditional systems of medicine in India.
Discuss the various formulations involved in Ayurveda.
4. Role of Growth regulators in drug cultivation.
5. Commercial significance of herbal formulations under WHO guidelines.
6. Extraction of plant drugs by microwave assisted technique and its merits and demerits.

II. Write notes on :

(8 x 5 = 40)

1. Preparation and uses of Natural pesticides.
2. Extraction of Clove oil.
3. Industrial production of Rosemary.
4. Mineral supplements.
5. Nutraceuticals.
6. Marine sources of drugs.
7. Factors involved in cultivation and collection.
8. How to destroy pests?

M.PHARM. DEGREE EXAMINATION**FIRST YEAR****BRANCH III – PHARMACOGNOSY****PAPER II – PHARMACOGNOSY****Q.P. Code : 262908****Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|--|----|---------|----|
| 1. a) Briefly explain the general aspects of various sources of natural medicinal products. | 17 | 40 min. | 20 |
| b) Industrial production of Geranium oil. | | | |
| 2. a) Explain any two modern methods of Extraction of volatile oils. | 17 | 40 min. | 20 |
| b) Define Growth regulator and classify with suitable example?
Give the mechanism of action of any one. | | | |

II. Write notes on :

- | | | | |
|---|---|---------|---|
| 1. Explain the Tribal system of medicine. | 4 | 10 min. | 6 |
| 2. Short notes on Gibberlins. | 4 | 10 min. | 6 |
| 3. Explain the various parameters involved in the cultivation of Digitalis. | 4 | 10 min. | 6 |
| 4. Write the method of preparation and uses of any two natural pesticides. | 4 | 10 min. | 6 |
| 5. Mineral supplements - Explain. | 4 | 10 min. | 6 |
| 6. What is the role of natural products in Siddha system of medicine? | 4 | 10 min. | 6 |
| 7. Explain in detail the Physical evaluation of crude drugs. | 4 | 10 min. | 6 |
| 8. Marine Pharmacognosy - Explain. | 4 | 10 min. | 6 |
| 9. Explain in detail the various methods of pest control. | 4 | 10 min. | 6 |
| 10. How will you extract plant drugs by microwave assisted technique? | 4 | 10 min. | 6 |

M.PHARM. DEGREE EXAMINATION**FIRST YEAR****BRANCH III – PHARMACOGNOSY****PAPER II – PHARMACOGNOSY****Q.P. Code : 262908****Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :****Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|---|----|---------|----|
| 1. Describe in detail about the various methods of isolation of and standardization of volatile oils. | 17 | 40 min. | 20 |
| 2. Discuss in detail about important pharmaceutically useful marine products. | 17 | 40 min. | 20 |

II. Write notes on :

- | | | | |
|---|---|---------|---|
| 1. Merits and demerits of cultivation of medicinal plants. | 4 | 10 min. | 6 |
| 2. Plant growth regulators. | 4 | 10 min. | 6 |
| 3. Ayurvedic herbal formulations. | 4 | 10 min. | 6 |
| 4. Lycopodium spore method. | 4 | 10 min. | 6 |
| 5. Toxicity of poisonous plants. | 4 | 10 min. | 6 |
| 6. Production of herbal formulations. | 4 | 10 min. | 6 |
| 7. Counter current extraction of phytoconstituents. | 4 | 10 min. | 6 |
| 8. High performance thin layer chromatography in the evaluation of herbal formulations. | 4 | 10 min. | 6 |
| 9. Nutraceuticals. | 4 | 10 min. | 6 |
| 10. Natural pesticides. | 4 | 10 min. | 6 |

M.PHARM. DEGREE EXAMINATION**FIRST YEAR****BRANCH III – PHARMACOGNOSY****PAPER II – PHARMACOGNOSY****Q.P. Code : 262908****Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|---|----|---------|----|
| 1. a) Discuss in detail about the commercial significance of herbal formulation. | 17 | 40 min. | 20 |
| b) Quality control evaluation of herbal formulation as per W.H.O guidelines. | | | |
| 2. Explain in detail about the classification, preparation, mechanism of action & application of growth regulators in Drug Improvement. | 17 | 40 min. | 20 |

II. Write Notes on :

- | | | | |
|---|---|---------|---|
| 1. Outline the method of cultivation & collection of Senna. | 4 | 10 min. | 6 |
| 2. Write down the industrial method of production & application of Geranium oil. | 4 | 10 min. | 6 |
| 3. Discuss about Organoleptic Evaluation of crude drugs. | 4 | 10 min. | 6 |
| 4. Highlight the role of Edaphic factors in the cultivation of medicinal plants. | 4 | 10 min. | 6 |
| 5. Discuss about Indigenous poisonous plants & their mode of toxicity. | 4 | 10 min. | 6 |
| 6. Outline the role of mutation & Hybridisation in improving the Quality & Yield of Medicinal plants. | 4 | 10 min. | 6 |
| 7. Compare the advantages & disadvantages of cultivated drugs over wild source. | 4 | 10 min. | 6 |
| 8. Explain about the methods of pest control. | 4 | 10 min. | 6 |
| 9. Write in detail about the steam distillation & Enfleurage method of extraction of Volatile oil. | 4 | 10 min. | 6 |
| 10. Highlight the role of Mineral supplements in Drug Improvement. | 4 | 10 min. | 6 |

M.PHARM. DEGREE EXAMINATION

FIRST YEAR

BRANCH III – PHARMACOGNOSY

PAPER II – PHARMACOGNOSY

Q.P. Code : 262908

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on :

(2 x 20 = 40)

1. a) Outline the General aspects in the cultivation of medicinal plants, their merits and demerits.
b) Internal & External factors involved in the cultivation of medicinal plants.
2. Discuss about the role of natural products in alternative systems of medicine like Siddha & Ayurveda.

II. Write notes on :

(10 x 6 = 60)

1. Outline the cultivation & collection of Clove.
2. Discuss about the industrial production & application of eucalyptus oil.
3. Discuss about plant derived drugs containing alkaloid & glycosides along with their classification.
4. Write about biological evaluation citing examples.
5. Outline the principles of Chinese medicine & Tribal medicine.
6. Discuss about Antibiotic & cyto-toxic agents obtained from marine source.
7. Explain in detail the principle & technique involved in carbon-di-oxide method of extraction of volatile oils.
8. Discuss the principle & rationale involved in production of herbal cosmetics.
9. Write about the application of growth regulators in Drug Improvement.
10. Outline the quality control evaluation of herbal formulations as per W.H.O guidelines.

M.PHARM. DEGREE EXAMINATION

FIRST YEAR

BRANCH III – PHARMACOGNOSY

PAPER II – PHARMACOGNOSY

Q.P. Code : 262908

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on :

(2 x 20 = 40)

1. Define essential oils.

Discuss in brief modern methods involved in extraction and estimation of volatile oils.

2. What is mean by Alternative system of medicine.

Write in detail the basic principles, diagnosis and treatment methods involved in Tradition system medicine.

II. Write notes on :

(10 x 6 = 60)

1. Discuss the tribal medicine in modern dosage forms.

2. Role of plant growth regulators in production of secondary metabolites.

3. Discuss the natural phytoconstituents to control pests.

4. WHO guidelines for standardization of herbal formulations.

5. Role of Nutraceuticals in heathcare.

6. Discus the techniques involved in good cultivation, collection and processing of medicinal plants.

7. Marine pharmacognosy and its applications.

8. Cultivation of aloes.

9. Industrial production and utility of rosemary.

10. General techniques in development and standardization of herbal cosmetics.

[LE 347]

APRIL 2014

Sub. Code: 2908

M.PHARM. DEGREE EXAMINATION

FIRST YEAR

BRANCH III – PHARMACOGNOSY

PAPER II – PHARMACOGNOSY

Q.P. Code : 262908

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on :

(2 x 20 = 40)

1. Define Evaluation. What are the five methods of evaluation?
Discuss about microscopical evaluation in detail.
2. Discuss the general aspects involved in the cultivation and collection of Digitalis.

II. Write notes on :

(10 x 6 = 60)

1. Carbondioxide method of extraction of volatile oils.
2. Extraction of plant constituents by micro-wave techniques with their merits and demerits.
3. Detection of adulterants in Essential oils.
4. Sources of natural medicinal products.
5. Marine Toxins.
6. Different methods of pest control.
7. Role of natural products in Ayurveda.
8. Industrial production and applications of Patchouli oil.
9. Role of mineral supplements in drug improvement.
10. Methods used to improve the quality of medicinal plants.

[LF 347]

OCTOBER 2014

Sub. Code: 2908

M.PHARM. DEGREE EXAMINATION

FIRST YEAR

BRANCH III – PHARMACOGNOSY

PAPER II – PHARMACOGNOSY

Q.P. Code : 262908

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on :

(2 x 20 = 40)

1. Discuss about the various drugs obtained from the Marine Source.
2. General aspects and factors involved in the cultivation of medicinal plants.

II. Write notes on :

(10 x 6 = 60)

1. Organoleptic evaluation of crude drugs.
2. Notes on indigenous poisonous plants.
3. Role of natural products in Homeopathy.
4. Short notes on growth inhibitors.
5. Preparation and uses of natural pesticides.
6. Rationale and technology involved in production herbal cosmetics.
7. Enfleurage method of extraction of volatile oils.
8. Microwave technique of extraction of medicinal plants.
9. Natural medicinal products obtained from Animal source.
10. Quantitative microscopy in evaluation of crude drugs.

[LG 347]

APRIL 2015

Sub. Code: 2908

M.PHARM. DEGREE EXAMINATION

FIRST YEAR

BRANCH III – PHARMACOGNOSY

PAPER II – PHARMACOGNOSY

Q.P. Code : 262908

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on :

(2 x 20 = 40)

1. Describe in detail about the various methods of isolation and standardization of volatile oils.
2. Write an account on the role of nutraceuticals in the treatment and prevention of diseases.

II. Write notes on :

(10 x 6 = 60)

1. Industrial method of production and application of geranium oil.
2. Explain the various parameters involved in the cultivation and collection of Rauwolfia.
3. Write the method of preparation and uses of any two natural pesticides.
4. Write a brief note on Indigenous poisonous plants and their mode of toxicity.
5. Commercial significance of herbal formulations as per W.H.O guidelines.
6. Explain briefly the role of natural products in homeopathy system of medicine.
7. Write a brief note on Biological evaluation of crude drugs.
8. Outline the role of mutation and Hybridisation in improving the Quality and Yield of Medicinal plants.
9. Write about the application of auxins in Drug Improvement.
10. Write a brief note the cardiovascular drugs of marine origin.

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APRIL 2016

Sub. Code: 2908

**M.PHARM. DEGREE EXAMINATION
FIRST YEAR
BRANCH III – PHARMACOGNOSY
PAPER II – PHARMACOGNOSY**

Q.P. Code: 262908

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. What is Drug evaluation? Enumerate the various methods of Drug evaluation. Discuss in detail about Physical and chemical evaluation of Crude Drugs.
2. a) Briefly explain the general aspects of various sources of Natural Medicinal Products.
b) Industrial production of Patchouli oil.

II. Write notes on:

(10 x 6 = 60)

1. General techniques in development and standardization of herbal cosmetics.
2. Discuss briefly about Antibiotic & cyto-toxic agents obtained from marine source.
3. Discuss briefly about Gibberellins.
4. Explain in detail the principle & technique involved in carbon-di-oxide method of extraction of volatile oils.
5. Outline the method of cultivation and collection of *Artemisia annua*.
6. Write a brief note on ayurvedic system of medicine.
7. Highlight the role of Mineral supplements in Drug Improvement.
8. Explain about the methods of pest control.
9. How will you extract plant drugs by microwave assisted technique?
10. Briefly explain the standardization of essential oils.

[LK 347]

MAY 2017

Sub. Code: 2908

**M.PHARM. DEGREE EXAMINATION
FIRST YEAR
BRANCH III – PHARMACOGNOSY
PAPER II – PHARMACOGNOSY**

Q.P. Code: 262908

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Marine pharmacognosy and its applications.
2. a) Microwave assisted method of extraction its merits, demerits and application.
b) Cultivation, industrial production and application of Davana.

II. Write notes on:

(10 x 6 = 60)

1. Standardization of essential oils.
2. Mechanism of action of growth regulators namely cytokines and abscisic acid.
3. Role of natural products in Ayurveda and Siddha.
4. Modern methods of extraction of volatile oils.
5. Factors involved in the cultivation of collection of medicinal plants.
6. Preparation of natural pesticides and its uses.
7. Carbon dioxide extraction.
8. Herbal cosmetics.
9. Traditional homeopathy medicine.
10. Quality control of natural medicine products.
