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SEPTEMBER 1991

FIRST M.Pharm. DEGREE EXAMINATION, SEPTEMBER 1991

Special Papers

Specialisation C — Pharmacognosy

Paper I — PHARMACOGNOSY

Time : Three hours.

Maximum : 100 marks.

Answer any FOUR questions.

All questions carry equal marks.

1. Describe the different methods employed to improve the quality of medicinal plants in the cultivation of medicinal plants.
 2. Describe the cultivation of senna. Explain its importance.
 3. Describe the role of medicinal plants in Ayurveda and Homoeopathy.
 4. Describe the Screening method for the Hypo-glycemic activity of a crude drug.
 5. Describe the chemical evaluation of crude drugs.
 6. Write notes on :
 - (a) Organoleptic and Physical evaluation.
 - (b) Dioscorea.
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[404]

MARCH 1992

FIRST M.Pharm. DEGREE EXAMINATION, MARCH 1992.

Branch C — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours.

Maximum 100 marks.

Answer any FOUR questions.

All questions carry equal marks.

1. Give an account of classification of vegetable drugs based on chemical constituents.
 2. Describe the factors involved in the improvement of plant constituents.
 3. Describe the cultivation, collection and preparation of Ipecac.
 4. How will you screen a natural drug for its Anti inflammatory effect?
 5. Describe the various methods for chemical evaluation of a crude drug.
 6. Write notes on :
 - (a) Hybridization.
 - (b) Ruta.
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NOVEMBER 1993

[P R 4 5 8]

M.Pharm. DEGREE EXAMINATION

First Year

Special Papers

Specialisation C — Pharmacognosy

PHARMACOGNOSY

Time : Three hours.

Maximum : 100 marks.

Answer any FOUR questions.

All questions carry equal marks.

1. Describe the cultivation of Senna in India. Describe the method of isolation of the glycosides of Senna.
 2. How are Herbal Drugs evaluated? Describe the Physical and Chemical methods of evaluation.
 3. Describe methods of Screening Hypoglycemic agents.
 4. Describe the methods used to improve quality of cultivated medicinal plants.
 5. Give an account of Pesticides with special reference to Natural pesticides.
 6. Write notes on :
 - (a) Plant Hormones.
 - (b) Screening of Diuretics.
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[ND 281]

NOVEMBER 1994

M.Pharm. DEGREE EXAMINATION,

(New Regulations)

Branch III — Pharmacognosy

PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer any FOUR questions.

All questions carry equal marks.

1. Describe the cultivation, collection and preparation for the market of Clove.
 2. Describe the importance of medicinal plants in the Homoeopathic system of medicine.
 3. Describe the preparation of chille oleoresin.
 4. Describe the different methods of extraction of volatile oil from natural drugs.
 5. Describe the methods to improve the quality of cultivation of medicinal plants.
 6. Explain the different methods of preparation of Ayurvedic formulations and principles followed in prescribing standards.
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APRIL 1995

[SB 310]

M.Pharm. DEGREE EXAMINATION

(New Regulations)

Branch III — Pharmacognosy

PHARMACOGNOSY

Time : Three hours.

Maximum : 100 marks.

Answer any FOUR questions.

All questions carry equal marks.

1. Describe the General Aspects of cultivation and collection of Cardamom.
 2. Describe the methods used to improve the active principles in Medicinal Plants.
 3. Describe how pests are controlled. Give an account of Natural Pesticides.
 4. Describe Biological Evaluation of Natural Drugs.
 5. Describe the importance of cultivation of Aromatic plants. Explain the methods of Isolation of Aromatic principles.
 6. Give an account of 'Herbal Drugs'. Explain their importance.
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APRIL 1996

[AK 311]

M.Pharm. DEGREE EXAMINATION.

(New Regulations)

Branch III – Pharmacognosy

PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer any FOUR questions.

All questions carry equal marks.

1. When you attempt to standardise Ayurvedic formulations what are the difficulties you encounter on a product manufactured by two companies? What are the factors you contribute to such difficulties stating in your answer the various stages of cultivation and collection of raw materials for such manufacture.

2. Give an account of cultivation of Senna for the market. Make a comparison of Senna obtained by scientific cultivation with those collected from wild source. Does any pharmacopoeial standards exist to find out Senna which are improperly prepared for the market?

3. What are the factors that influence the formation of plant secondary metabolites? Explain them in detail citing examples.

4. Write a detailed account on different methods of extraction of volatile oil using hot and cold methods.

Give with the aid of a flow sheet the method of extraction of clove oil.

[AK 311]

5. How far can you use quantitative microscopy in standardisation of crude drugs? Give examples to substantiate your answer.

6. Write notes on :

(a) Application of growth regulators.

(b) Cultivation and industrial application of Eucalyptus oil.

(c) Biological evaluation of crude drugs.

[PK 207]

OCTOBER 1996

M.Pharmacy. DEGREE EXAMINATION.

Branch III – Pharmacognosy

PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer any FOUR questions.

All questions carry equal marks.

1. Discuss exogenous factors affecting the cultivation of medicinal and aromatic plants. Write a note on commercial cultivation of CLOVE.
 2. Give an account of cardio-vascular and antibiotic drugs obtained from marine sources.
 3. Discuss the significance of the following techniques in the quality control of crude drugs.
 - (a) Fluorescence analysis.
 - (b) Thin layer chromatography.
 4. Give an account of contributions made by Chinese medicine and Ayurveda to development of Herbal Drug Technology of recent years.
 5. Describe a systematic approach to quality control of poly-herbal drug formulations. Discuss its limitations and scope in establishing quality profile.
 6. Write briefly on the following :
 - (a) Export from India of aromatic plant chemicals.
 - (b) Enfleurage method of volatile oil extraction.
 - (c) Auxins.
 - (d) Natural contact insecticides.
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APRIL 1997

M.Pharm. DEGREE EXAMINATION

(New Regulations)

First Year

Branch III - Pharamacognosy

Paper II - PHARMACOGNOSY

Time: Three hours

Max.marks:100

Answer any FOUR questions

All questions carry equal marks

1. Describe the scope of cultivation of Medicinal plants. Taking an example of one drug work out the economics of cultivation as compared with collection from wild sources.
2. Describe the present trend in "Herbal Formulations".
3. Describe the chemical and biological methods in the quality control of natural medicinal products.
4. Describe the production and quality control of Patchouli oil.
5. Describe the role of medicinal plants in Ayurveda and homoeopathy.
6. Write briefly on:
 - (a) Export of medicinal plants and plant products
 - (b) Neem and neem products.

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OCTOBER 1997

M.Pharm. DEGREE EXAMINATION

(New Regulations)

First Year

Branch III - Pharmacognosy

Paper II - PHARMACOGNOSY

Time: Three hours

Max.marks:100

Answer any FOUR questions

All questions carry equal marks

1. Discuss the cultivation of clove and cardamom. Explain the commercial importance of the drugs and the economic viability of the cultivation.
2. Explain the chemotaxonomic classification of vegetable drugs.
3. Explain the methods used to improve the quality and yield of active principles of medicinal plants.
4. Discuss the general principles to be followed in prescribing standards for Ayurvedic formulations and their limitations.
5. Discuss the significance of the following in the quality control of crude drugs:
 - (a) H.P.L.C.
 - (b) Spectrophotometry
6. Write briefly on:
 - (a) Marine Pharmacognosy
 - (b) Carbon dioxide extraction of plant constituents.

APRIL 1998

[SV 275]

M. Pharm. DEGREE EXAMINATION.

(New Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer any FOUR questions.

All questions carry equal marks.

1. Discuss the factors influencing cultivation of medicinal plants. Why are medicinal plants cultivated?
 2. What is quality control? Discuss how quantitative microscopy can be used in quality control of crude drugs.
 3. Write notes on :
 - (a) Chemotaxonomy.
 - (b) Cultivation and collection of Cinchona.
 4. What are volatile oils? How are they obtained commercially? Discuss their importance. Write what you know about Eucalyptus oil.
 5. What is marine pharmacognosy? Name the important drugs derived from marine source and write on the pharmaceutical importance of any one of them.
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[KA 275] OCTOBER 1999

M.Pharm. DEGREE EXAMINATION.

(New Regulations)

First Year

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 mark

Answer any FOUR questions.

All questions carry equal marks.

1. Discuss the general aspects involved in the cultivation of :

(a) Clove.

(b) Cardamom.

2. Write an essay on Pesticides and their control.

3. Write a precise note on :

(a) Marine Pharmacognosy.

(b) Chemotaxonomy.

4. What are growth regulators? Discuss their roles in the improvement of Drug Cultivation.

5. Write an essay on Poisonous plants and their mode of toxicity.

6. Write short notes on :

(a) Carbondioxide extraction of Volatile oils.

(b) Industrial application of Eucalyptus oil and its extraction.

(c) Herbal Cosmetics.

[KB 275] APRIL 2000

M.Pharm. DEGREE EXAMINATION.

(New Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer any FOUR questions.

All questions carry equal marks.

1. Discuss the general aspects involved in the cultivation of (a) Rauwolfia (b) Opium Poppy plant.
2. Enumerate the different factors involved in the production of drugs from medicinal plants. Discuss in particular environmental factors that affect cultivation.
3. Discuss (a) the importance of Chemotaxonomy and (b) the importance of medicinal plants in Homeopathic system of medicine.
4. Write short notes on :
 - (a) Application of Growth Regulators
 - (b) Natural pesticides.

5. Describe the different methods of obtaining essential oils from plant sources. Add a note on the merits and demerits of each method.

6. Write short notes on :

- (a) Polyploidy
- (b) Alternative system of medicine
- (c) Plant Hormones
- (d) Export from India of aromatic plant chemicals.

[KC 275] OCTOBER 2000

M.Pharm. DEGREE EXAMINATION.

(New Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer any FOUR questions.

All questions carry equal marks.

1. (a) Discuss the methods adopted for drug improvement with suitable examples.

(b) Give the method of calculation for Growth Index.

2. Explain the different methods of preparation of Ayurvedic formulations and the principles followed in prescribing standards.

3. (a) Write about the cultivation and collection of clove and explain with a flow-chart the extraction of clove oil.

(b) Explain about toxic plants and their effects.

4. (a) Write on the Nature and distribution of volatile oils in plants.

(b) Explain carbon dioxide extraction of essential oils and mention its scope for commercial production.

(c) Write about the methods of Analysis for volatile oils.

5. Write short notes on :

(a) Production and evaluation of Chillies-oleoresin.

(b) Natural Pesticides.

(c) Biological evaluation of crude drugs.

(d) Chemo taxonomy.

6. Discuss the general aspects involved in the cultivation of

(a) Rauwolfia.

(b) Opium poppy plant.