

APRIL 2001

[KD 275]

M.Pharmacy 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. Describe the cultivation of Senna, with a note on its pest control and discuss the methods used to improve its quality. (25)

2. The crude drug supplied to a manufacturing company is offered for sale at well below the current market price. Considering yourself as the chief of the quality control laboratory of the company, chalk out the plan of investigation of the crude drug supplied and send a report to the purchase officer. (25)

3. (a) Briefly describe the systems of classification of drugs in the study of pharmacognosy mentioning their merits and demerits.

(b) Write a note on Poisonous plants and their mode of toxicity. (25)

4. (a) Give the methods of detection of adulterants in volatile oil.

(b) Write about the standardisation of aromatic plant chemicals.

(c) Write a note on the cultivation, isolation, analysis and application of patchouli oil. (25)

5. Explain the role of growth regulators in drug improvement. (25)

6. Write short notes on : (25)

(a) Marine Pharmacognosy

(b) Siddha system of medicine

(c) Growth kinetics

(d) Asawas and

(e) Mineral supplements used in drug improvement.

[KD 296] **APRIL 2001**

M.Pharmacy DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

All questions carry equal marks.

1. (a) Write an essay on Natural Pesticides.
(b) Add a note on the Pest Control Methods. (25)
2. What is Evaluation? Describe the different types of Evaluation with examples. (25)
3. (a) Enumerate the various factors involved in the production of drugs from Medicinal plants.
(b) Describe the role of growth regulators and inhibitors in the cultivation of Medicinal Plants. (25)

4. . Write short notes on any FIVE : (25)

- (a) Enflourage.
- (b) Chemotaxonomy.
- (c) Bio-active compounds from Marine sources.
- (d) Asavas and Arishtas.
- (e) Gibberellins.
- (f) Carbondioxide extraction of Essential oils.

[KE 275] NOVEMBER 2001

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. Write an essay on the sea as a source of biomedicinals. (25)
2. Describe the general aspects involved in the activation of (i) Digitalis (ii) Cinchona. ($12\frac{1}{2} + 12\frac{1}{2}$)
3. Discuss in detail the use of different growth regulators for drug improvement. (25)
4. Write notes on :
 - (i) Carbon dioxide extraction of volatile oils.
 - (ii) Health foods. ($12\frac{1}{2} + 12\frac{1}{2}$)

5. Enumerate and discuss the various methods employed for the physical and chemical evaluation of crude drugs. (25)

6. What is chemotaxonomy? Discuss the various steps in chemotaxonomic investigation. Also discuss the importance of chemotaxonomy in phyto chemistry. (25)

NOVEMBER 2001

[KE 296]

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. Discuss in detail the features involved in commerce and quality control of natural medicinal products. (25)
2. Write notes on : (25)
 - (a) Growth regulators
 - (b) Examination and Analysis of essential oils
 - (c) Industrial applications of patchouli oil
 - (d) Export potentials of Aromatic chemicals.

3. Describe the cultivation of digitals and opium poppy. (25)

4. Highlight the role of natural products in alternative system of medicine like siddha, ayurveda and homeopathy. (25)

[KH 296] SEPTEMBER 2002

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. Describe the cultivation and post-harvest technology of

(a) Senna

(b) Cardamom

2. (a) Enumerate a list of poisonous plants and explain their mode of toxicity and the compounds responsible for the same.

(b) Discuss the different types of Pest control methods used for protecting medicinal plants.

3. (a) Discuss the role of natural products in alternative systems of medicine.

(b) Present a historical review of Traditional systems of Medicine.

4. Write short notes on any FIVE :

(5 × 5)

(a) Polyploidy

(b) Quantitative microscopy

(c) Serotaxonomy

(d) Natural pesticides

(e) Organoleptic evaluation

(f) Plant hormones.

APRIL 2003

[KI 296]

Sub. Code : 1008

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. Explain some of the Marine biologicals with chemical nature and pharmacological actions. (25)
 2. Explain the role of Chemotaxonomy in the classification of vegetable drugs. Discuss its importance in phyto chemistry. (25)
 3. Describe the general aspects involved in the cultivation of clove and cinchona. $(12\frac{1}{2} + 12\frac{1}{2})$
 4. Write note on :
 - (a) Analysis of essential oils. (15)
 - (b) Health foods. (10)
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OCTOBER 2003

[KJ 296]

Sub. Code : 1008

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. (a) Discuss on the general aspects involved in the cultivation of medicinal plants. (13)

(b) Write on the cultivation and post harvest technology of cinchona and cloves. (12)

2. (a) Describe the various quality control and standardising method of crude drugs. (15)

(b) List out the indigenous poisonous plants and explain their mode of toxicity. (10)

3. (a) How do natural products contribute to alternative system of medicine? Discuss. (15)

(b) Write a note on the aromatic oils and their commerce. (10)

4. Write notes on any FIVE :

(a) Pesticides

(b) Plant hormones

(c) Ayurvedic preparations

(d) Hybridisation

(e) Marine natural products

(f) Tissue culture.

(5 × 5)

[KK 296] **APRIL 2004** Sub. Code : 1008

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours Maximum : 100 marks

Sec. A & B : Two hours and Sec. A & B : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

SECTION A

Long Essay : (2 × 15 = 30)

1. Write in detail the exogenous and endogenous factors affecting cultivation of medicinal plants.
2. Explain the role of natural products in the alternative system of medicine.

SECTION B

Short notes. (10 × 5 = 50)

3. What is hybridization? Give its applications.
4. Give a brief note on biological evaluation.

5. Write soil and weather conditions required for clove plant.

6. What are gibberellins? and give the applications of gibberellins.

7. Write a note on Historical review of traditional system Ayurveda.

8. Describe cultivation of eucalyptus plant.

9. Write about poisonous plants of India.

10. Give tests for detection of adulteration in volatile oils.

11. Explain standards for Herbal drugs.

12. Write a brief note on analysis of Ayurvedic preparations.

AUGUST 2004

[KL 296]

Sub. Code : 1008

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours Maximum : 100 marks

Sec. A & B : Two hours and Sec. A & B : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

SECTION A

Long Essay : (2 × 15 = 30)

1. (a) Explain the different methods used to improve the quality of medicinal plants. (10)

(b) Write a note on traditional system of medicine as a source of new drug. (5)

2. (a) What is evaluation of crude drugs? Explain the methods for standardization of official formulations. (8)

(b) Write a note on extraction and analysis of volatile oils. (7)

SECTION B

Short notes : (10 × 5 = 50)

3. List out five biologically active compounds from marine sources with their sources and uses.

4. Explain the terms convergence, divergence and parallelism.

5. Explain the cultivation and collection of cinchona or clove.

6. What is the role of temperature and rainfall in production of drugs? Explain with examples.

7. Explain the current status of commerce in crude drugs.

8. Write a note on 'Nutraceuticals'.

9. Classify growth regulators and explain their uses.

10. Explain the preparation of 'patchouli oil'.

11. What is the scope for export of aromatic products?

12. How are the adulterants detected in volatile oils? Explain with examples.

FEBRUARY 2005

[KM 296]

Sub. Code : 1008

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

**Sec. A & B : Two hours and
forty minutes**

Sec. A & B : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

SECTION A — (2 × 15 = 30 marks)

Long Essay :

1. Describe methods of cultivation of medicinal and aromatic plants. Mention the volatile oils of export potential.
2. Give a brief review on the traditional systems of medicine. Write a note on the role of natural products in alternative system of medicine.

SECTION B — (10 × 5 = 50 marks)

Short notes on :

3. Growth regulators.
 4. Natural pesticides.
 5. Analysis of ayurvedic preparations.
 6. Marine natural products.
 7. Poisonous plants and their toxic principles.
 8. Mineral supplements and nutrients used in drug development.
 9. Serotaxonomy.
 10. Polyploidy.
 11. Plant hormones.
 12. Organoleptic evaluation.
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AUGUST 2005

[KN 296]

Sub. Code : 1008

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

1. (a) Classify the vegetable drugs and describe in detail the chemotaxonomical features. (10)

(b) Explain the role of pesticides in preventing pest attack on medicinal plants. (5)

2. (a) Describe the role and scope of export of aromatic chemicals. (10)

(b) Discuss the importance of selection, hybridisation and polyploidy in in-vitro propagation. (5)

II. Short notes : (10 × 5 = 50)

1. Describe the importance and shortcomings of drugs obtained from Marine source.

2. Discuss the factors involved in the cultivation of Opium poppy.

3. Describe the major role of quality control in promotion of medicinal plants.

4. Elaborate on factors involved in the production of drugs from medicinal plants.

5. Highlight the role of natural products in alternative system of medicine like siddha, ayurveda etc.

6. Describe the role of growth hormones in plant drug promotion.

7. Discuss the various methods of analysis of official formulations derived from crude drugs.

8. Describe in brief the cultivation procedure of Patchouli oil and Eucalyptus oil.

9. List out the industrial applications of Geranium oil and chillies oleoresin.

10. Comment on the need for standardisation of Aromatic plant chemicals.

[KO 296] MARCH 2006 Sub. Code : 1008

M. Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours Maximum : 100 marks

**Theory : Two hours and Theory : 80 marks
forty minutes**

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

I Long Essay : (2 × 15 = 30)

1. What are the methods adopted for control of pests while cultivation of medicinal plants. Write briefly on natural pesticides.
2. Give an account of the analytical methods for standardization of arishtas asavas and choornas.

II. Short notes : (10 × 5 = 50)

1. Gibberellins
2. Animal source of crude drugs
3. Pharmacological evaluation of drugs
4. Carbon dioxide extraction of volatile oils
5. Aromatic chemicals export
6. Quantitative microscopy
7. Nutraceuticals
8. Algae and fish as sources of pharmaceuticals
9. Soil and fertilizer requirements for cultivation of clove
10. Hybridization.

SEPTEMBER 2006

[KP 296]

Sub. Code : 2816

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M. C. Q : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay :

1. (a) Describe microscopical and chemical evaluation of crude drugs.

(b) Discuss on various marine products which are used as pharmaceutical aids. (10 + 10 = 20)

2. (a) Discuss in detail the problems encountered in the standardization of Herbal drugs. (8)

(b) Write the general principles to be followed in prescribing standards for Ayurvedic formulations. (7)

3. (a) Discuss the role of exogenous and endogenous factors in the cultivation and production of plant drugs. (10)

(b) Write the role of natural products in alternative system of medicine. (5)

II. Short notes : (6 × 5 = 30)

1. How Indian opium is prepared for the market?

2. Explain the role of natural pesticides in pest control.

3. Discuss the Export potential of aromatic chemicals.

4. Describe the application of various plant growth hormones.

5. Explain the role of macro and micro nutrients in drug improvement.

6. Describe the cultivation and industrial application of Geranium oil.

[KQ 296] MARCH 2007 Sub. Code : 2816

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours Maximum : 100 marks

**Theory : Two hours and Theory : 80 marks
forty minutes**

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay :

1. What are Plant Hormones? Give a detailed account on plant growth regulators with a note on growth inhibitors. (20)

2. Write the general aspects involved in the cultivation of Medicinal Plants. Enunciate your answer with Digitalis and opium popy as examples. (15)

3. Give a detailed account on the source and quality control of natural medicinal products. (15)

II. Short notes : (6 × 5 = 30)

1. Marine Pharmacognosy.

2. Chemotaxonomy.

3. Natural pesticides.

4. Cultivation of Aromatic plants.

5. Examination and analysis of essential oils.

6. Natural products in alternative system of medicine in Ayurveda.

MARCH 2007

[KQ 322]

Sub. Code : 2858

M.Pharm. DEGREE EXAMINATION.

(Regulations 2006)

First Year

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay :

1. (a) Describe in detail the quality control aspects of Natural Medicinal Products – related to organoleptic, microscopical and chemical evaluation.

(b) Give the general aspects of the source of Natural Medicinal Products. (10 + 10 = 20)

2. (a) Give a detailed report on the cultivation of *Rawwolfia*, *Digitalis* and *Senna*. (8)

(b) Describe the role of natural products in alternative system of medicine. (7)

3. (a) What are growth regulators? Describe the mechanism of action of growth regulators. (10)

(b) Discuss macronutrients and micronutrients the role in drug improvement. (5)

II. Short notes : (6 × 5 = 30)

1. Marine Pharmacognosy and its applications.

2. Pest control in the cultivation of medicinal plants.

3. Indigenous poisonous plants.

4. Applications of growth regulators.

5. Rationals and technology involved in herbal cosmetics.

6. Standardisation of essential oils.

[KR 322] SEPTEMBER 2007 Sub. Code : 2858

M.Pharm. DEGREE EXAMINATION.

Branch III

Paper II — PHARMACOGNOSY

Time : Three hours **Maximum : 100 marks**

Theory : Two hours and forty minutes	Theory : 80 marks
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M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions

I. Long Essay :

1. (a) Describe in detail the benefits and limitations of procuring drugs from marine source.

(b) Highlight the applications of Marine Pharmacognosy. (20)

2. (a) Give an overview of poisonous plants.

(b) Describe the mode of toxicity of poisonous plants with special emphasis to indigenous poisonous plants. (15)

3. Give in detail the general aspects of sources of natural medicinal products. (15)

II. Short notes : (6 × 5 = 30)

1. Merits and demerits of cultivation.
2. Highlight the features of Raamolfia cultivation.
3. Describe the role of natural products in alternative system of medicine.
4. Comment upon commerce of natural medicine products.
5. Write a note on homeopathy.
6. Describe tribal medicine and neutraceuticals.

September 2008

[KT 322]

Sub. Code : 2858

M.Pharm. DEGREE EXAMINATION.

First Year

(Regulation 2006)

Branch III — Pharmacognosy

Paper II — PHARMACOGNOSY

Q.P. Code : 262858

Time : Three hours

Maximum : 100 marks

Answer ALL questions

I. Long Essay : (3 × 20 = 60)

1. (a) What are plant growth regulators? Name different plant growth regulators and write the functions and applications of Auxins and Gibberlins.

(b) Discuss the factors involved in the cultivation of medicinal plants.

2. (a) Discuss the quality control and standardisation of herbal formulations.

(b) General methods used to improve the quality of medicinal plants.

3. (a) Write an essay on indigenous poisonous plants.

(b) Write a note on important bioactive agents of marine origin with their chemistry and uses.

II. Short notes : (8 × 5 = 40)

1. Extraction of volatile oils by steam distillation.

2. Natural pesticides.

3. Industrial production of guranium oil.

4. Physical evaluation of crude drugs.

5. Merits and demerits involved in the cultivation of Aloes.

6. Write notes on cultivation of digitalis.

7. Macrometrients for the cultivation of medicinal plants.

8. Herbal cosmetics.

March 2009

[KU 322]

Sub. Code: 2858

M.PHARM. DEGREE EXAMINATION

(Regulations 2006)

Candidates admitted from 2006-2007 onwards

FIRST YEAR

Branch III – PHARMACOGNOSY

Paper II – PHARMACOGNOSY

Q.P. Code : 262858

Time : Three hours

Maximum : 100 marks

Answer All questions

I. Essay Questions :

(3 x 20 = 60)

1. a) Explain the different official methods for evaluation of crude drugs.
b) Explain any two of the above with examples.
2. Explain the role of natural products in alternative medicine.
3. a) Explain the method of extraction and standardization of volatile oils.
b) Explain the general method of cultivation of sauna plant.

II. Write Short Notes :

(8 x 5 = 40)

1. Cultivation of medicinal plants.
2. Specific method of cultivation of plantago ovata.
3. Discuss about neutraceuticals.
4. Industrial production of Eucalyptus oil.
5. Give the official source, characters, constituents and uses of any two marine drugs.
6. Carbon dioxide extraction of volatile oils.
7. Natural pesticides.
8. Application of chromatography in pharmacognosy.

September 2009

[KV 322]

Sub. Code: 2858

M.PHARM. DEGREE EXAMINATION

(Regulations 2006)

Candidates admitted from 2006-2007 onwards

FIRST YEAR

Branch III – PHARMACOGNOSY

Paper II – PHARMACOGNOSY

Q.P. Code : 262858

Time : Three hours

Maximum : 100 marks

Answer All questions

I. Essay Questions :

(3 x 20 = 60)

1. Explain with specific examples the role of growth regulators in herbal drugs improvement.
2. Describe the various aspects of quality control of herbal formulations as per international standards.
3. a) Write a detailed note on indigenous poisonous plants with emphasis on their mode of toxicity.
b) Write a note on the cultivation and applications of geranium and Rosemary oil.

II. Write Short Notes :

(8 x 5 = 40)

1. Chinese traditional system of medicine.
2. Technology involved in the production of herbal shampoos.
3. Microscopical evaluation of drugs of national origin.
4. Cultivation of digitalis.
5. Mineral sources of medicinal products.
6. Antineoplastic drug molecules of marine organisms.
7. General aspects of cultivation of medicinal plants.
8. Cultivation of coleus forskoli.

March 2010

[KW 322]

Sub. Code: 2858

**M.PHARM. DEGREE EXAMINATION
(Regulations 2006)**

Candidates admitted from 2006-2007 onwards

FIRST YEAR

Branch III – PHARMACOGNOSY

Paper II – PHARMACOGNOSY

Q.P. Code : 262858

Time : Three hours

Maximum : 100 marks

Answer All questions

I. Essay Questions :

(3 x 20 = 60)

1. Explain pharmacognostical evaluation of natural medicinal products as per WHO guidelines.
2. a) Write the various methods of quality control of crude drugs.
b) Describe the modern methods of extraction of volatile oils. Add a note on their standardization.
3. a) Write a note on the cultivation of senna and aloe.
b) Explain the role of natural products in the Indian systems of medicine.

II. Write Short Notes :

(8 x 5 = 40)

1. Sources of natural medicinal products.
2. Application of drugs of marine origin.
3. General factors involved in the cultivation of medicinal plants.
4. Gibberellins.
5. Industrial production of eucalyptus oil.
6. Extraction of herbal drugs of microwave assisted technique.
7. Preparation and uses of natural pesticides.
8. Indigenous poisonous plants.

September 2010

[KX 322]

Sub. Code: 2858

M.PHARM. DEGREE EXAMINATION

(Regulations 2006)

Candidates admitted from 2006-2007 onwards

FIRST YEAR

Branch III – PHARMACOGNOSY

Paper II – PHARMACOGNOSY

Q.P. Code : 262858

Time : Three hours

Maximum : 100 marks

Answer All questions

I. Essay Questions :

(3 x 20 = 60)

1. Explain in detail about the cultivation of a) Clove b) Plantago.
2. Describe the quality control tests of natural medicine products as per WHO guidelines.
3. Discuss the modern methods of extraction of Volatile oils with suitable examples.

II. Write Short Notes :

(8 x 5 = 40)

1. Nutraceuticals.
2. Give two natural drugs obtained from marine source giving their applications.
3. Classify growth regulators with suitable examples.
4. Quality control of Herbal formulations.
5. Pest Control.
6. Pest control in the cultivation of medicinal plants.
7. Standardisation of essential oils.
8. Role of natural products in Homeopathy system of medicine.

MAY 2011

[KY 322]

Sub. Code: 2858

M.PHARM. DEGREE EXAMINATION

(Regulations 2006)

Candidates admitted from 2006-2007 onwards

FIRST YEAR

BRANCH III – PHARMACOGNOSY

PAPER II – PHARMACOGNOSY

Q.P. Code : 262858

Time : Three hours

Maximum : 100 marks

Answer All questions

I. Essay Questions :

(3 x 20 = 60)

1. Describe the source, history, cultivation, collection and preparation for market, characters, chemistry, identification tests and uses of digitalis. Mention the substitutes and adulterants of the same.
2. Given an account of the practices employed to ensure that the drugs do not deteriorate during collection & preparation and storage.
3. Discuss the role of natural products in alternative system of medicine.

II. Write Short Notes :

(8 x 5 = 40)

1. Natural pesticides.
2. Factors involved in the cultivation of medicinal plants.
3. Source of medicinal products of animal origin.
4. Cytokinin and abscisic acid.
5. Detection of adulterants in volatile oils.
6. Artemisia annua.
7. Poisonous plants.
8. High Performance Thin Layer Chromatography.
