

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0321]

MARCH 2021

Sub. Code: 2063

(SEPTEMBER 2020 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI Regulation SEMESTER – VI

PAPER III – HERBAL DRUG TECHNOLOGY

Q.P. Code : 562063

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Explain the infrastructural and general requirements of herbal drug industry as per Good Manufacturing Practice.
2. Discuss the role of Good Agricultural practice in cultivation of medicinal plants.
3. Explain in detail about the herb – drug and herb – food interactions.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Processing of herbal raw material.
2. Preparation and Standardization of Lehya.
3. Basic principles of Siddha system of medicine.
4. Classification of Nutraceuticals with examples.
5. Health benefits of Ginseng.
6. Phytosomes.
7. Stability testing of herbal drugs.
8. Case study of NEEM.
9. Schedule-Z of Drugs and Cosmetic Act for Ayurveda, Siddha, Unani drugs.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Define Herb.
2. What are primary and secondary metabolites?
3. Explain Panchamahabhuta in Ayurveda.
4. Give the sources and two health benefits of ALFA ALFA.
5. Write the possible side effects of Ephedra.
6. Mention two herbs used in Oral Hygiene products.
7. Give the examples for diluents of natural origin.
8. Define Intellectual Property Rights.
9. Give any two objectives of Schedule-T.
10. Enlist the types of Nutraceutical products available in market.

[BPHARM 0921]

SEPTEMBER 2021
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Sub. Code: 2063

B. PHARMACY DEGREE EXAMINATION
PCI Regulation 2017 - SEMESTER - VI
PAPER III – HERBAL DRUG TECHNOLOGY
Q.P. Code : 562063

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Explain in detail the WHO guidelines for the assessment of herbal drugs.
2. Explain the health benefits and role of Nutraceuticals in treating diabetes.
3. a) Explain the advantages and disadvantages of herbal excipients.
b) Write briefly on preparation and standardization of Arista.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Basic principles of Homeopathic system of Medicine.
2. Honey as health food.
3. Possible side effects and interactions of Ginkobiloba.
4. Natural sweeteners.
5. Preparation of Herbal Tablets.
6. ICH guidelines for assessment of herbal drugs.
7. Components of Good Manufacturing Practice as per Schedule-T.
8. Skin care products.
9. Documents and Records of herbal drug industry as per Good Manufacturing Practice.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Define the term Breeder's right.
2. What is Bioprospecting?
3. Define herbal drug preparation.
4. Write sources and two health benefits of chicory.
5. Write the health benefits of Amla.
6. What is Kava – Kava?
7. Give the examples for Natural Binders.
8. Give the drug interactions of Garlic.
9. Write briefly on natural perfumes with examples.
10. Write briefly on Bleaching agents.

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[BPHARM 0122]

**JANUARY 2022
(MARCH 2021 EXAM SESSION)**

Sub. Code: 2063

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER VI

PAPER III – HERBAL DRUG TECHNOLOGY

Q.P. Code : 562063

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Discuss in detail the plant based industries and institutions involved in work on medicinal and aromatic plants in India.
2. Explain the method of preparation and standardization of Churna.
3. Give a detail account on raw materials of herbal origin used in hair care products.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Identification and authentication of herbal materials.
2. Ashwagandha as health food.
3. Hypericum - side effects and interactions.
4. Natural colourants.
5. Herbal syrups.
6. Case study of Curcuma.
7. Ayurvedic, Siddha, Unani Drugs Technical Advisory Board
8. Present scope and future prospects of Herbal Drug Industry in India.
9. Importance of organic farming.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Define herbal Medicine.
2. What are bioinsecticides? Give two examples.
3. Explain Trigunas in Ayurveda.
4. What is law of similars?
5. Write briefly on functional foods.
6. Write the sources and health benefits of Fenugreek.
7. Mention two herbs used in the treatment of irritable bowel syndrome.
8. Write briefly on Farmers right.
9. What is Biopiracy?
10. What are viscosity builders?

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0522]

MAY 2022

Sub. Code: 2063

(SEPTEMBER 2021 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI Regulation SEMESTER - VI

PAPER III – HERBAL DRUG TECHNOLOGY

Q.P. Code : 562063

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Explain Good Agriculture practices for Medicinal Plants.
2. What are the present and future scopes of Herbal Drug Industries in India.
3. Write in detail about ASU-DTAB and ASU- DCC

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Explain Pest management in Medicinal plants.
2. Explain preparation and standardization of Asavas and Aristas.
3. Give the benefits and role of Nutraceuticals in Diabetes.
4. Write note on Herbal Skin care products.
5. What is Biopiracy? Explain patent case study of Curcuma.
6. Explain Schedule T in detail.
7. Write note on Industry – academia inter relation.
8. Differentiate with examples between Organic farming & Biodynamic agriculture.
9. Explain Garlic & Honey as Health food.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Define the term Herbal Medicine & Herbal Medicinal Products.
2. Write various types of Extracts & their Drying methods.
3. Write the side effect and interaction of Ginkobiloba.
4. The role of Alfaalfa as nutraceuticals.
5. Write ideal properties of Hair colours.
6. Farmer's Right.
7. IPR
8. Homeopathy.
9. Name some fixed oil used in herbal cosmetics.
10. Phytosomes.

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[BPHARM 1022]

**OCTOBER 2022
(MARCH 2022 EXAM SESSION)**

Sub. Code: 2063

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER VI

PAPER III – HERBAL DRUG TECHNOLOGY

Q.P. Code : 562063

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Describe the WHO and ICH Guidelines for assessment of Herbal Drugs.
2. Define and classify Herbal Excipients with examples. Describe the role excipients in cosmetics.
3. Explain Ayurvedic medicine system and their standardization.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Explain Herbs and their Importance.
2. The role of nutraceuticals in healthcare management.
3. The side effect and interaction of Pepper and Ephedra.
4. The general herbal ingredients of Herbal Shampoos.
5. Stability testing of Herbal drugs.
6. Explain documentation and record maintenance as per Schedule T.
7. Write the list of Indian herbs patents.
8. Note on bleaching agent in herbal cosmetics.
9. The health benefits and role of nutraceuticals in Cancer.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Write the difference between conventional and Organic Farming.
2. Give some examples of plants act as Pesticides.
3. Health benefits of Ashwagandha.
4. The side effect and interaction of Kava Kava.
5. Define binders. Write the classification of binders.
6. Give two examples and role of herbs in dental care.
7. Define the term Patent and IPR.
8. Write similarities between plant Breeder's right and Farmer's right.
9. Mention the evaluation parameters of herbal tablets.
10. Define churna and write the types of churna.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[B.PHARM 0323]

**MARCH 2023
(SEPTEMBER 2022 EXAM SESSION)**

Sub. Code: 2063

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER VI
PAPER III – HERBAL DRUG TECHNOLOGY**

Q.P. Code: 562063

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Define nutraceuticals. Write the classification of nutraceuticals. Describe in detail any one food used as nutraceuticals.
2. Write about regulatory aspects of Pharmaceuticals and bulk drug manufacturing.
3. Explain various interactions with respect to Herbs – Drugs and Herbs – Food.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Write about Organic farming.
2. The health benefits and role of nutraceuticals in CVS Diseases.
3. Herbal Tablets.
4. Give quality control test for Hair Care Products.
5. The patent case study of Neem.
6. Explain objective and importance of GMP.
7. Explain Breeders right.
8. Write note on Phytosomes.
9. Define Biopesticides. Classify with examples.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Write the classification of chemical fertilizers with examples.
2. Differentiate the prebiotics from probiotics.
3. Chicory.
4. The role of Fenugreek as nutraceuticals.
5. Classification of Natural colourants.
6. Patent.
7. Biopiracy.
8. Components of GMP.
9. Bhasmas.
10. Name some conventional Herbal formulations.
