[BPHARM 0321]

MARCH 2021

(SEPTEMBER 2020 EXAM SESSION) B. PHARMACY DEGREE EXAMINATION

PCI Regulation SEMESTER – VI

PAPER III – HERBAL DRUG TECHNOLOGY

O.P. Code: 562063

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

Sub. Code: 2063

- 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.

 $(7 \times 5 = 35)$

- 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.

 $(10 \times 2 = 20)$

- 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 (SEPTEMBER 2020 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

Sub. Code: 2063

- 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.

 $(7 \times 5 = 35)$

- 1. Basic principles of Homeopathic system of Medicine.
- 2. Honey as health food.
- 3. Possible side effects and interactions of Ginkobiloba.
- 4. Natural sweetners.
- 5. Preparation of Herbal Tablets.
- 6. ICH guildelines 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.

 $(10 \times 2 = 20)$

- 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.

[BPHARM 0122] JANUARY 2022 Sub. Code: 2063 (MARCH 2021 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

- 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.

 $(7 \times 5 = 35)$

- 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.

 $(10 \times 2 = 20)$

- 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?

[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.

 $(2 \times 10 = 20)$

- 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.

 $(7 \times 5 = 35)$

- 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.

 $(10 \times 2 = 20)$

- 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.

[BPHARM 1022] OCTOBER 2022 Sub. Code: 2063 (MARCH 2022 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

- 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.

 $(7 \times 5 = 35)$

- 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.

 $(10 \times 2 = 20)$

- 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.

[B.PHARM 0323] MARCH 2023 Sub. Code: 2063 (SEPTEMBER 2022 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

- 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.

 $(7 \times 5 = 35)$

- 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.

 $(10 \times 2 = 20)$

- 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.

[B.PHARM 0823] AUGUST 2023 Sub. Code: 2063 (MARCH 2023 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

- 1. Mention various Ayurvedic formulations and elaborate the formulation and standardisation of Arista and Asava.
- 2. Write a detailed note on patenting of traditional knowledge and natural products with examples.
- 3. Write different herbal liquid formulations. Give a detailed account on preparation standardization and preservation of herbal syrups.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Explain about infrastructural requirements of herbal drug industry as per Schedule T.
- 2. Write different methods for processing of herbal raw materials and explain storage of herbal drugs with examples.
- 3. Discuss the interactions and side effects of Pepper and Ginseng.
- 4. Write a note on stability testing of herbal drugs.
- 5. Give a note on herbal skin care cosmetics.
- 6. Write a note on general aspects, market growth of nutraceuticals.
- 7. Give a brief account on plant-based industries and institutions in India.
- 8. Enumerate different pest control methods and explain biological control method.
- 9. Give the source, chemical constituents and uses of any two natural gums.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Mention the significance of Phytosomes.
- 2. Give examples of herbal excipients used as binders.
- 3. What are the ideal requirements of bhasma?
- 4. What are probiotics? Give examples.
- 5. Define herbal medicinal product and herbal drug preparation.
- 6. What is the basic principle involved in homeopathy?
- 7. Write the Characteristics of Hair dyes.
- 8. What do you mean by farmer's right and breeder's right?
- 9. Name any two herbal antioxidants and give their biological source.
- 10. Name the components of GMP.

[B.PHARM 1223] DECEMBER 2023 Sub. Code: 2063 (SEPTEMBER 2023 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

- 1. Explain Good agricultural practices in cultivation of medicinal plants including organic farming.
- 2. Write in detailed account on WHO guidelines for assessment of herbal drug.
- 3. Explain the principle, diagnosis and methods of treatment in Siddha, Ayurveda and Homoeopathy system of Medicine.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. What are Nutraceuticals? Discuss on the present market scenario and scope of nutraceuticals.
- 2. What is Biopiracy? Explain patent case study of Curcuma.
- 3. Enlist the various Bioinsecticides and explain any two in detail.
- 4. Give the general herbal ingredients of herbal shampoo.
- 5. What are the objectives of GMP? Enumerate the componants of GMP.
- 6. Describe the possible side effects and interactions of hypericum and kava-kava.
- 7. Explain Schedule Z of Drugs & Cosmetics act for ASU drugs.
- 8. Explain the present scope and future prospects of herbal drug industry.
- 9. Write a short note on colorants and sweeteners as herbal excipients and their significance.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Define Herb and Herbal medicines.
- 2. What is meant by Farmers right?
- 3. Name any two natural bleaching agents with biological source.
- 4. Health benefits of Ginger and Chicory.
- 5. What are Asava and Arista?
- 6. Give the source and chemical constituents of any one herb used as perfume.
- 7. Define bio-fertilizers with examples.
- 8. Enlist two nutraceuticals used in gastrointestinal diseases with their active constituents.
- 9. What is master formula record?
- 10. Mention the evaluation parameters for herbal syrups.