



PAPER ID-420838

Printed Page: 1 of 1
Subject Code: BP603T

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BPHARMA
(SEM VI) THEORY EXAMINATION 2021-22
HERBAL DRUG TECHNOLOGY – THEORY

Time: 3 Hours**Total Marks: 75****Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.**SECTION: A****1. Attempt all questions.****10 x 2 = 20**

a.	Define herb and herbal medicine .
b.	What do you mean by Bio-insecticides?
c.	Define nutraceuticals.
d.	Write botanical source and uses of Feenugreek.
e.	What are viscosity builders? Give example.
f.	What is the significance of natural colorants? Give example of one natural colorant.
g.	Define Patent.
h.	Differentiate between bioprospecting and biopiracy.
i.	What are bleaching agent?
j.	Gives two examples of natural sweeteners.

SECTION: B**2. Attempt any two parts of the following:****2 x 10 = 20**

a.	Write an exhaustive note on WHO guidelines on Quality Control of herbs.
b.	What do you mean by GMP? Write its components and objectives in detail.
c.	What is herb-drug interaction? Discuss with examples.

SECTION: C**3. Attempt any five parts of the following:****7 x 5 = 35**

a.	Write about principles of Ayurveda and Homeopathy systems of medicines.
b.	Write a note on nutraceuticals.
c.	Write an exhaustive note on excipients, their individual significance along with examples.
d.	What are IPR? Give its types. Explain in detail about the case of biopiracy of Neem.
e.	Write composition of ASU-DTAB and ASU-DCC and their responsibilities.
f.	What are Novel Dosage forms? How they differ from conventional dosage forms? Explain phytosomes in detail.
g.	Write a note on Arishtha or Bhasams.

B PHARM
(SEM VI) THEORY EXAMINATION 2022-23
HERBAL DRUG TECHNOLOGY

Time: 3 Hours

Total Marks: 75

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. **Attempt all questions in brief.**

10 x 2 = 20

- a. Write main difference between Herbs and Herbal medicinal preparations.
- b. Define biodynamic agriculture.
- c. What are Nutraceuticals?
- d. Write 2 drug interactions of *kava-kava*.
- e. Write names of two natural colors.
- f. Define phytosomes.
- g. What is biopiracy?
- h. What is Ash value?
- i. Which categories of drugs are covered under Schedule T?
- j. What are SOPs?

SECTION B

2. **Attempt any two parts of the following:**

2 x 10 = 20

- a. Write an exhaustive note on traditional systems of medicines.
- b. Write about the use of Nutraceuticals in prevention and treatment of cancer and diabetes.
- c. Write a note on quality control parameters for herbal drugs as per WHO.

SECTION C

3. **Attempt any five parts of the following:**

7 x 5 = 35

- a. Write a note on processing of herbal raw material.
- b. Write about the interactions of *Ginkgo biloba* and Ginger.
- c. Write a note on herbal excipients used in herbal cosmetics.
- d. What are IPRs. Explain in details about the case of Neem patenting.
- e. Write about Schedule Z for ASU drugs.
- f. Write a note on scope and future prospects of herbal drug industries.
- g. Write a note on herbal syrups and herbal cream.



PAPER ID-410472

Printed Page: 1 of 1

Subject Code: BP603T

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BPHARM
(SEM VI) THEORY EXAMINATION 2023-24
HERBAL DRUG TECHNOLOGY THEORY

TIME: 3 HRS**M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

10 x 2 = 20

a.	Define herbal preparation and herbal product.
b.	Write biological source and uses of Garlic.
c.	Define biopiracy and bioprospecting.
d.	Name two herbal drug industries and institutions in India.
e.	Differentiate between biodynamic agriculture and organic farming.
f.	Give the importance of SOP in good manufacturing practices of herbal drugs.
g.	Name the sources, chemical constituents and uses of any two natural antioxidants.
h.	Mention the objectives of schedule T.
i.	Define the term Nutraceuticals with examples.
j.	Give two examples of novel herbal drug products available in the market.

SECTION B

2. Attempt any two parts of the following:

2 x 10 = 20

a.	Discuss IPR issues in India. Explain the case studies of Turmeric and Neem.
b.	Write a detailed note on ayurveda system of medicine.
c.	Explain the health benefits and role of nutraceuticals in Diabetes and Cancer.

SECTION C

3. Attempt any five parts of the following:

7 x 5 = 35

a.	Discuss the present status and future of herbal drug industry in India and abroad.
b.	Describe the sources and functions of herbs used for preparation of oral hygiene products.
c.	Explain Stability testing of herbal drugs.
d.	Mention composition and responsibilities of DTAB and DCC.
e.	Discuss in detail about the homeopathic system of medicine.
f.	Explain the processing of herbal raw materials.
g.	Write a note on herbal drug interactions of pepper and ephedra.

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PAPER ID-310382

Roll No:

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Printed Page: 1 of 1

Subject Code: BP603T

BPHARM
(SEM VI) THEORY EXAMINATION 2024-25
HERBAL DRUG TECHNOLOGY – THEORY

TIME: 3 HRS**M.MARKS: 75**

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A**1. Attempt all questions in brief.****10 x 2 = 20**

a.	What is secondary processing of raw materials used in herbal drug preparation?
b.	What is Farmers right?
c.	What do you understand by the term 'organic farming'?
d.	Mention any two antioxidants used as skin care products.
e.	What are the major contaminants in herbal formulations?
f.	Write down the full forms of ASU-DTAB and ASU DCC.
g.	Give the health benefits of Garlic as nutraceutical.
h.	Mention any two natural sweeteners and viscosity builders used as herbal excipients.
i.	What are conventional herbal formulations? Give suitable example.
j.	Differentiate between Arishtas and Asavas.

SECTION B**2. Attempt any two parts of the following:****2 x 10 = 20**

a.	Explain in detail good agricultural practices (GAP's) as per WHO guidelines in cultivation of medicinal plants.
b.	Write an exhaustive note on market growth, scope and types of nutraceutical products available in market.
c.	Write a detailed note on raw materials used as fixed oils and protecting agents in preparation of skin care products.

SECTION C**3. Attempt any five parts of the following:****7 x 5 = 35**

a.	Contrast the different steps involved under Herbal drug preparation.
b.	Define stability testing. What are the different factors affecting the stability of herbal formulations.
c.	Write about different pest controlling techniques under organic farming.
d.	Discuss the case study of Neem as biopiracy.
e.	Write a brief note on present scope and future prospects of herbal drug industry.
f.	Write a short note on- a) Herbal syrups b) Phytosomes
g.	What are the possible side effects and interactions of Ginseng and Garlic?



Paper ID : 261325

Printed Page: 1

Subject Code:BP603T

Roll No: 1

BPHARM

(SEM. VI) THEORY EXAMINATION 2025-26
HERBAL DRUG TECHNOLOGY – THEORY

TIME: 3 HRS

M.MARKS: 75

Note: Attempt all Sections.

SECTION A

1. Attempt all questions in brief. 10 x 2 = 20

a.	Define herb and herbal medicine.
b.	What is authentication of herbal drugs?
c.	Define biodynamic agriculture.
d.	What are biopesticides? Give one example.
e.	Define nutraceuticals.
f.	What is herb-drug interaction?
g.	Define herbal excipients.
h.	What are phytosomes?
i.	Define Asava and Arishta.
j.	Define patent and biopiracy.

SECTION B

2. Attempt any two of the following: 2 x 10 = 20

a.	Discuss Indian systems of medicine and preparation of any two Ayurvedic formulations (Asava, Arishta, Churna, Bhasma).
b.	Explain herbal cosmetics and raw materials used in skin, hair and oral care products.
c.	Discuss Schedule T requirements and GMP for herbal drug manufacturing.

SECTION C

3. Attempt any five of the following: 7 x 5 = 35

a.	Explain selection, identification and authentication of herbal raw materials.
b.	Discuss Good Agricultural Practices (GAP) in cultivation of medicinal plants.
c.	Write a detailed note on herbal nutraceuticals and their role in diseases like diabetes and cardiovascular diseases.
d.	Explain herb-drug interactions with suitable examples (any three drugs).
e.	Describe herbal excipients and their significance in pharmaceutical formulations.
f.	Discuss WHO and ICH guidelines for evaluation of herbal drugs.
g.	Explain patenting aspects of traditional knowledge with case studies (Neem / Turmeric).