

Paper Id:

150303

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B.PHARM
(SEM IV) THEORY EXAMINATION 2018-19
PHARMACOGNOSY-I

Time: 3 Hours**Total Marks: 75****Note:** Attempt all Sections. If you require any missing data, choose suitably.

SECTION A

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

- a. Define Pharmacognosy.
- b. What is taxonomical classification system of crude drugs?
- c. What is polyploidy?
- d. What is the role of auxin in plant?
- e. Enlist various plant tissue cultures.
- f. What is totipotency?
- g. What is **Tridosh** theory in Ayurveda?
- h. What are alkaloids?
- i. What is biological source of cotton?
- j. What is the pharmaceutical significance of gelatin.

SECTION B

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

- a. What are various types of adulterations involved with herbal drug? Write a detailed note on physical evaluation of crude drugs.
- b. What are various factors affecting cultivation of medicinal plants? Discuss with suitable examples.
- c. What are various nutritional requirements of plant tissue culture?

SECTION C

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

- a. Discuss scope & historical developments of Pharmacognosy.
- b. What is hybridization? How it is significant in plant cultivation?
- c. Write a brief note on edible vaccines.
- d. Discuss Ayurvedic system of medicine and its role of pharmacognosy.
- e. Define glycosides? Give its classification.
- f. Discuss pharmacognostic profile of Honey.
- g. Write a note on novel medicinal agents from marine sources.



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BPHARM
(SEM IV) THEORY EXAMINATION 2021-22
PHARMACOGNOSY I – THEORY

Total Marks: 75

Time: 3 Hours

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.	What do you mean by edible vaccines?
b.	Discriminate organized and unorganized crude drugs.
c.	Classify sources of crude drugs.
d.	Mention principle of Unani System of Medicines
e.	Define flavonoids. Write their identification test.
f.	Discuss hallucinogen and teratogens with example.
g.	Write formulae of stomatal index and lycopodium spore methods.
h.	Define hybridization and mutation with examples
i.	Biological source and uses of Jute and hemp.
j.	Enlist different methods of propagation.

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

2 x 10 = 20

a.	Define and classify alkaloids. Describe identification test of alkaloids.
b.	Describe biological sources, chemical composition and uses of any four of the following drugs. a) Honey b) Papain c) Acacia d) Castor oil e) Chaulmoogra oil
c.	Discuss about different factors affecting cultivation of crude drugs with suitable examples.

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

7 x 5 = 35

a.	Write exhaustive notes on Ayurvedic and Homeopathic System of Medicines.
b.	Discuss physical and chemical evaluation parameters of adulteration.
c.	Define and classify glycosides. Discuss chemical test of cardiac and saponin glycosides.
d.	Write notes on a) Auxin and cytokinin b) Novel medicinal plants from marine sources.
e.	Explain in brief about alphabetical, chemical and pharmacological classification of crude drugs.
f.	Describe biological sources, preparations and uses of streptokinase and tragacanth.
g.	Write notes on nutritional requirement and growth of plant tissue culture.



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BPHARM
(SEM IV) THEORY EXAMINATION 2021-22
PHARMACOGNOSY I – 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 in brief.****10 x 2 = 20**

a.	Define Stomatal Index and Palisade Ratio.
b.	Give two examples of each of Tropane alkaloids and Saponin Glycosides.
c.	How does Colchicine induce Polyploidy in Plants?
d.	Classify plant growth promoters.
e.	Differentiate between callus culture and suspension culture.
f.	Give a short note on nutrient requirement of culture media for plant tissue culture.
g.	Compare the Ayurvedic formulations-Asava and Arishta.
h.	What are flavonoids? Give examples.
i.	Differentiate between yellow and white beeswax.
j.	Write the source and uses of Bromelain.

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

a.	Discuss the history, scope and development of Pharmacognosy.
b.	Write a exhaustive note on Homeopathy and Ayurvedic system.
c.	Give the biological source, chemical constituents and uses of any four of the following: https://www.aktuonline.com (i) Tragacanth (ii) Gelatin (iii) Beeswax (iv) Papain (v) Castor Oil

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

a.	Give the functions and applications of Auxins and Cytokinins.
b.	Explain the chemical and pharmacological classification of crude drugs.
c.	Explain novel medicinal agents from marine sources.
d.	Explain the method of preparation and application of edible vaccines
e.	Compare the various types of hybridization techniques in medicinal plants.
f.	Explain the characteristic features, classification and tests for identification for glycosides.
g.	.Discuss the various applications of PTC.

BPHARM
(SEM IV) THEORY EXAMINATION 2022-23
PHARMACOGNOSY-ITHEORY

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) Enumerate animal sources of crude drugs.
- (b) Differentiate organized and unorganized drugs with example.
- (c) Define morphological classification of drugs with example.
- (d) What is drug adulteration? Discuss with example.
- (e) What are Auxins?
- (f) Define Edible vaccines.
- (g) What are **Yin** and **Yang**?
- (h) What are Alkaloids?
- (i) Discuss Hallucinogens with example.
- (j) Define Pharmaceutical aids with example.

SECTION B

2. Attempt any twoparts of the following:

2 x 10 = 20

- (a) Give a detailed note on novel medicinal agents from marine source.
- (b) Give principles of treatment of Ayurveda. How it differs from Unani system of medicine.
- (c) What are various steps of plant tissue culture? How it is useful in pharmaceuticals?

SECTION C

3. Attempt any fiveparts of the following:

7 x 5 = 35

- (a) Discuss complete pharmacognosy of any unorganized drug.
- (b) What is pharmacological classification of crude drugs? Discuss with example.
- (c) What are the various factors influencing cultivation of medicinal plants?
- (d) Write a detailed note on Chinese system of medicine.
- (e) Give definition, classification, properties and test for identification of Tannins.
- (f) What are Teratogens? How they differ from natural allergens?
- (g) Give detailed drug profile of Castor oil and honey.



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BPHARMA
(SEM IV) THEORY EXAMINATION 2023-24
PHARMACOGNOSY I – 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

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|----|--|
| a. | Define the term totipotency. |
| b. | Stomatal index and lycopodium spore method calculate by which formula. |
| c. | Enlist different methods of propagation. |
| d. | Define the term enzymes. |
| e. | Differentiate organized and unorganized crude drug with examples. |
| f. | What do you mean by the term fibers? |
| g. | Enlist plant growth regulators. |
| h. | Enumerate physico- chemical properties of alkaloids. |
| i. | Mention general identification test for alkaloids. |
| j. | Give biological source of acacia and agar. |

SECTION B

2. Attempt any two parts of the following:

2 x 10 = 20

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|----|---|
| a. | What do you mean by the term secondary metabolites? Discuss a detail note on volatile oil. |
| b. | Write short note on below mention with reference to medicinal plants.
a) Polyploidy
b) Mutation |
| c. | Evaluation is necessary? How can you evaluate crude drug on the basis of morphological, chemical, taxonomical and biological methods? |

SECTION C

3. Attempt any five parts of the following:

7 x 5 = 35

- | | |
|----|---|
| a. | Define the term pharmacognosy. Mention its scope in pharmacy. |
| b. | Define plant tissue culture? Give application of plant tissue culture in pharmacognosy. |
| c. | Explain role of ayurvedic, allopathy and Chinese system of medicine in Pharmacognosy |
| d. | Give definition, classification, properties and test for identification of flavonoids. |
| e. | Discuss about factors affecting cultivation and collection of medicinal plants. |
| f. | What are lipids? Give pharmacognostic study of wool fat and castor oil. |
| g. | What are primary metabolites give pharmacognostic study of tragacanth and honey. |



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BPHARM
(SEM. IV) THEORY EXAMINATION 2025-26
PHARMACOGNOSY I – 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 chemo-taxonomy in crude drug classification.
b.	What is marine pharmacognosy?
c.	Give two differences between gums and mucilages.
d.	What is leaf constant? Name any one type.
e.	Define mutation breeding in medicinal plants.
f.	What is meant by plant growth regulators? Give one example.
g.	Define somatic embryogenesis.
h.	What are teratogens?
i.	Define volatile oils with one characteristic property.
j.	What is the role of enzymes in crude drug evaluation?

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

a.	Explain different methods used for detection of adulteration in crude drugs with suitable examples.
b.	Discuss the impact of environmental factors (climate, soil, altitude) on the quality of medicinal plants.
c.	Describe the chemistry, preparation and pharmaceutical uses of proteins and enzymes as pharmaceutical aids.

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

a.	Explain serotaxonomy and its significance in identification of crude drugs.
b.	Discuss different drying techniques used in processing of crude drugs and their advantages.
c.	Describe various storage conditions required to prevent deterioration of crude drugs.
d.	Explain the role of plant hormones in improving yield of medicinal plants.
e.	Write a note on applications of genetic engineering in plant tissue culture.
f.	Describe different tests used for identification of tannins and flavonoids.
g.	Explain the chemistry and uses of lipids: bees wax and wool fat.