

B.Pharm II Year II Semester (R19) Regular & Supplementary Examinations September 2022  
**PHARMACOGNOSY & PHYTOCHEMISTRY – I**

Time: 3 hours

Max. Marks: 75

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- Give suitable examples for dried latex in crude drugs.
  - Define serotaxonomy.
  - Write the collection practice of any one latex.
  - Mention the applications of auxins.
  - Define hairy root culture.
  - Define edible vaccines.
  - Define unani system of medicine.
  - Define glycosides.
  - Write the application of agar.
  - What are the uses of chaulmoogra oil?

**PART – B**  
(Answer any two questions: 02 X 10 = 20 Marks)

- 2
- Define adulteration, methods of adulteration and its detection.
  - Define palisade ratio.
- 3
- Discuss the storage process of crude drugs.
  - Discuss the application of plant tissue culture in pharmacognosy.
- 4
- Classify tannins with suitable examples.
  - Write about the novel drugs from marine sources.

**PART – C**  
(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 Discuss the organized crude drugs with suitable examples.
- 6 Discuss on the determination of stomatal index with illustrated diagrams.
- 7
- Write the advantages of vegetative propagation.
  - Discuss the role of cytokinins in plant propagation.
- 8
- Discuss the hybridization in the propagation of medicinal plants.
  - Define plant tissue culture.
- 9
- What is somatic embryogenesis?
  - Give the applications of protoplast fusion.
- 10
- Mention the external medicines based on Siddha system of medicine.
  - Discuss about Keller Kiliani test.
- 11
- Classify flavonoids with suitable examples.
  - Write the properties and examples for volatile oil.
- 12
- Discuss the preparation of absorbent cotton.
  - What are the applications of Hemp fibre?
- 13
- Write about bromelain.
  - What are natural allergens?

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B.Pharm II Year II Semester (R19) Supplementary Examinations March 2022

**PHARMACOGNOSY & PHYTOCHEMISTRY – I**

Time: 3 hours

Max. Marks: 75

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define the term dried latex with an example.
  - (b) What is serotaxonomy?
  - (c) What are gibberellins?
  - (d) Define the term polyploidy.
  - (e) Define callus culture.
  - (f) Define edible vaccines.
  - (g) Define homeopathy.
  - (h) Write modified Borntrager's test.
  - (i) Define the term teratogen? Give examples from natural origin.
  - (j) Write the sources and uses of castor oil.

**PART – B****(Answer any two questions: 02 X 10 = 20 Marks)**

- 2 (a) Discuss the methods of adulteration of drugs of natural origin.  
(b) Discuss the pharmacological classification of crude drugs.
- 3 (a) Discuss about the conservation of medicinal plants.  
(b) What are the applications of plant tissue culture in pharmacognosy?
- 4 (a) Discuss the role of pharmacognosy in Ayurveda.  
(b) Elaborate the fibres of natural origin.

**PART – C****(Answer any seven questions: 07 X 05 = 35 Marks)**

- 5 (a) Write about the scope of pharmacognosy.  
(b) Define leaf constants.
- 6 (a) Mention the physical methods of evaluation of crude drugs.  
(b) Give the benefits of lycopodium spore method.
- 7 (a) What is vegetative propagation?  
(b) How the altitude and temperature affects the cultivation of medicinal plants? Give examples.
- 8 (a) Write the applications of auxins in plant growth.  
(b) Define the term mutation and hybridization.
- 9 (a) Write history of plant tissue culture.  
(b) Write about cell suspension culture.

Contd. in page 2

- 10 (a) What is hairy root culture?  
(b) Write nutritional requirements of plant tissue culture.
- 11 (a) Mention any three external medicines used in siddha.  
(b) Classify tannins.
- 12 (a) Define alkaloids and pseudo alkaloids with examples.  
(b) Write the source and constituents of tragacanth.
- 13 (a) Discuss isolation of bromelain.  
(b) Mention the novel medicinal agents from marine sources.

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B.Pharm II Year II Semester (R19) Regular Examinations September 2021

**PHARMACOGNOSY & PHYTOCHEMISTRY – I**

Time: 3 hours

Max. Marks: 75

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- Define the term dried extract with an example.
  - Define the term adulteration.
  - Define mutation.
  - Write the advantages of seed propagation.
  - Define cell suspension culture.
  - Define totipotency.
  - Define unani system of medicine.
  - Define resins.
  - Define natural allergens.
  - Write the uses of hemp.

**PART – B****(Answer any two questions: 02 X 10 = 20 Marks)**

- 2
- Differentiate organized and unorganized drugs with examples.
  - Discuss the chemical methods of classification of crude drugs.
- 3
- What are the factors influencing the cultivation of medicinal plants?
  - Give a note on edible vaccines.
- 4
- Classify glycosides.
  - Discuss about proteolytic enzymes.

**PART – C****(Answer any seven questions: 07 X 05 = 35 Marks)**

- 5
- What is chemotaxonomy?
  - Explain microscopical evaluation of leaf drugs.
- 6
- Write benefits of camera lucida.
  - Give examples for marine drugs with its uses.
- 7
- Write the advantages of cultivated source over wild source.
  - Discuss the plan growth inhibitors.
- 8
- What is polyploidy?
  - Write collection of bark drugs with examples.
- 9
- Write about organogenesis.
  - What is somatic embryogenesis?

Contd. in page 2

- 10 (a) Write a note on protoplast culture.  
(b) Mention any two applications of plant tissue culture in pharmacognosy.
- 11 (a) Write role of pharmacognosy in siddha system of medicine?  
(b) What is the confirmatory test for flavonoids?
- 12 (a) Classify volatile oils.  
(b) Write a short note on honey.
- 13 (a) Write about preparation of absorbent cotton.  
(b) Give a note on utilization of wool fat.

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