

ASTU(Reg.) - 02.06.15

Total No. of printed pages = 7

PY 132205

Roll No. of candidate

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B. Pharm 2nd Semester End-Term Examination
PHARMACOGNOSY-II

Full Marks - 100 Pass Marks - 35 Time - Three hours

The figures in the margin indicate full marks
for the questions.

1. Answer any *ten* of the following questions :

2×10=20

- Define schizolysigenous gland.
- What is the biological source of sandal wood ?
- What do you mean by Pathological product ?
Give example.
- What is Gall ?
- Define the terms : oleoresin, oleogum resin.
- Classify terpenoids.
- How does CO₂ gas use as menstrum in the extraction process ?

[Turn over

(h) Balsamic acid is the combination of and

(i) How does Pungency of Capsicum as well as Ginger destroy ?

(j) Give two examples of natural sweetening agent.

(k) Mention the utilizations of bitter drug.

(l) Define pericarp, mesocarp.

2. Answer any *ten* of the following questions :

3×10=30

I. (a) What are the pigments present in capsicum fruit ?

(b) Mention the name of ether soluble portion of Jalap.

(c) How does Nutmeg Adulterate ?

1+1+1=3

II. (a) What microscopically differences are there in between fennel fruit and caraway fruit ?

(b) What is musk ?

2+1=3

III. (a) Write down the mechanism behind the process of extraction.

(b) What do you mean by phytochemical screening ?

2+1=3

IV. Briefly discuss on soxhlet extraction technique with neat diagram.

3

V. Write down the biological source and chemical constituents of Asafoetida, Benzoin, Myrobalan.

3

VI. Briefly discuss on Ayurvedic preparation of Asava, Arishta, Tailas.

3

VII. (a) Discuss on Goldbeater skin test.

(b) Discuss the application of Eculle method.

2+1=3

VIII. (a) Name the two plants belonging to the Graminae family.

(b) Give details about ninhydrine test.

(c) Devil's dung is the synonym of

1+1+1=3

IX. Choose the right answers : $1 \times 3 = 3$

(a) A secretory cell present above each vascular bundle of

- (i) Caraway fruit
- (ii) Fennel fruit
- (iii) Cardamom fruit
- (iv) Clove bud

(b) Hager's reagent is

- (i) 5% solution of Picric acid
- (ii) 5% solution of CuSO_4
- (iii) Solution of potassium permanganate
- (iv) 5% solution of KMnO_4

(c) Following which one is American Podophyllum ?

- (i) *Podophyllum hexandrum*
- (ii) *Podophyllum peltatum*
- (iii) *Podophyllum peltatin*
- (iv) *Podophyllum palustris*.

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(4)

X. Match the column : $0.5 \times 6 = 3$

A	B
Liquid extract	Carvone
Caraway	Menthol
Pippermint	Citrus oil
Eculle method	Ethyl alcohol
Infusion	Myrtaceae
Clove	Aqueous extract

XI. Discuss the morphology of ginger and colophony. 3

XII. Discuss the microscopy of Fennel fruit. 3

3. Answer any *ten* of the following questions : $5 \times 10 = 50$

(a) Write briefly the Yin and Yang theory of Chinese system of medicine. Briefly discuss the aim of Unani system of medicine. $3+2=5$

(b) Define and classify tannin in details. $1+4=5$

(c) Discuss the general methods of extraction of volatile oil. 5

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(5)

[Turn over

(d) Write the biological source, chemical constituents and uses of Cinnamon and Mentha.

2×2.5=5

(e) Write short notes on Plant Bitters and Sweetners.

2×2.5=5

(f) Write down the pharmacognostical profile of Clove bud.

5

(g) How do you estimate qualitatively – Cardiac glycoside, Anthraquinone glycoside, Alkaloid, Flavonoid, Carbohydrate in given plant extract ?

1×5=5

(h) Write the basic hypothesis of Ayurvedic system of medicines.

5

(i) Write short notes on : Maceration, Bhasmas, Etheral oil.

2+1.5+1.5=5

(j) Define the term : Carminative, Astringent and Tincture. Why steam distillation is necessary for the preparation of colophony ? What is the name of colorless, crystalline and pungent principle present in capsicum ?

1+1+1+1+1=5

(k) Write down the name of the crude drug belonging the following given families :

Umbelliferae, Labiatae, Leguminosae, Pinaceae, Convolvulaceae.

1×5=5

(l) What do you mean by Ellipsoidal, Endosperm ? Explain the processing of Eucalyptus oil and musk oil. What are the other names of Indian hemp ?

1+2+1.5+0.5=5