

## SAMSKRUTI COLLEGE OF PHARMACY

### B. PHARMACY III & IV YEAR LAB EXTERNAL TIME TABLES

Timings: FN: 9.30am -12. 30pm AN: 1.30pm-4.30pm

#### B. PHARMACY 3<sup>rd</sup> YEAR 1<sup>ST</sup> SEMESTER

DATE	SECTION A	SECTION B
12.02.2021	Pharmacology – II (FN) Manasa	Pharmacognosy-II (FN) Umadevi
	Pharmacognosy-II (AN) Umadevi	Pharmacology – II (AN) Manasa
13.02.2021	Industrial Pharmacy -I (FN) B. Krishna	Industrial Pharmacy -I (AN) B. Krishna

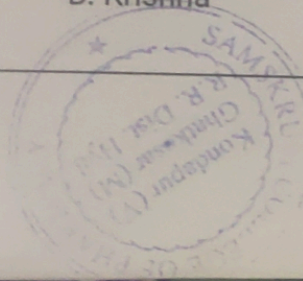
#### B. PHARMACY 4<sup>th</sup> YEAR 1<sup>ST</sup> SEMESTER

DATE	SECTION A	SECTION B
13.02.2021	Instrumental Methods of Analysis Mounika (FN)	Practice School (FN) Dr. Ravikumar
	Instrumental Methods of Analysis Mounika (AN)	Practice School (AN) Mounika

### B. PHARMACY III & IV YEAR LAB INTERNAL TIME TABLES

#### B. PHARMACY 3<sup>RD</sup> YEAR 1<sup>ST</sup> SEMESTER

DATE	SECTION A	SECTION B
15.02.2021 1	Pharmacology –II (10:00-11:30am) Manasa	Pharmacognosy-II (10:00-11:30am) Umadevi
	Pharmacognosy-II (11:40-1:00am) Umadevi	Industrial Pharmacy -I(11:40-1:00am) B. Krishna
	Industrial Pharmacy -I(2:00-3:30pm) B. Krishna	Pharmacology – II (2:00-3:30pm) Manasa

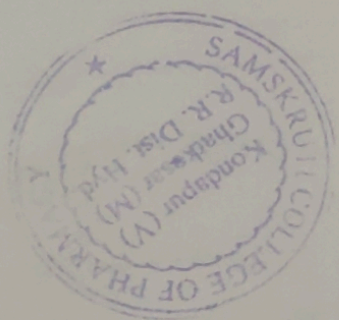




B. PHARMACY 4<sup>th</sup> YEAR 1<sup>ST</sup> SEMESTER

DATE	SECTION A	SECTION B
15.02.2021	Instrumental Methods of Analysis Mounika (FN)	Practice School (FN) Dr. Ravikumar
	Instrumental Methods of Analysis Mounika (AN)	Practice School (AN) Mounika

Principal



A handwritten signature in green ink, appearing to be 'Dr. Ravikumar'.

Principal

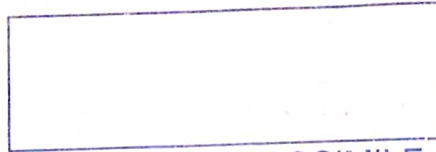
Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar (M)  
Medchal Dist. PIN-501301





**EXAMINATION BRANCH**  
**PRACTICAL EXAMINATION ANSWER BOOK**

College Stamp



No.: 21664062

(8 pages)

PRINCIPAL'S FASCIMILE. →

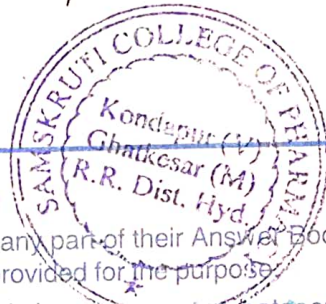
H.T.No.: 1 8 Y 7 1 R 0 0 5 2

S. Tanu kalyan  
Controller of Examinations

Name of the Examination Lab External Branch B. Pharmacy

Lab Subject pharmacognosy & phytochemistry-II Date 12/02/2021

S. Tanu kalyan  
12/2/21  
Signature of the Student with date



[Signature]  
12/2/21  
Signature of Internal Examiner with date

**1. Candidates are prohibited from :**

- Writing their Hall Ticket No. in any part of their Answer Books except in the space specially provided for the purpose.
- Writing their names or symbols in any manner whatsoever in their Answer Books.
- Addressing the examiner in any manner whatsoever in their Answer Books.

If they do so, their Answer Books will not be valued and the student will be booked under Malpractice case.

- The candidates are not allowed into the Lab (where the Lab Exam is scheduled), after 30 minutes from the time of commencement of the examination.
- The candidates are not allowed to leave the Lab (where the Lab Exam is scheduled), for first 1 1/2 hours from the time of commencement of the examination.
- The candidate should not forget to enter Hall Ticket Number. Otherwise their Answer Book will not be valued.
- Before beginning to answer any question, the candidate should write the correct question number.
- Answer should be written on both sides of the paper.
- Please leave a margin of 2.5 cm on the left side of each page. Do not write anything in the margin except the question numbers.
- No loose sheets of paper will be allowed in to the Lab where the Exam is scheduled and no paper must be detached from the Answer Book
- All additional Answer Sheets and Graph Sheets, if used, should be attached before the last sheet of the main Answer Book and fastened securely.
- Answer must be legibly written.
- This Answer Book should be returned to one of the examiners before leaving the Lab.
- The Candidate will be booked under malpractice for damaging / not returning the Answer Book after the examination.

**For Examiners' Award only**

Description	Marks
Synopsis (15m) Design / Code	12
Major (25m) Execution	23
Minor (15m) Output / Results	15
Records Viva - Exam (10m)	7 10
<b>Total</b>	<b>67</b>

Total Marks obtained

67

Maximum Marks

75

[Signature]  
12/2/21  
Signature of External Examiner with date

[Signature]  
12/2/21  
Signature of Internal Examiner with date

# START WRITING FROM HERE

## ① Synopsis :

- (i) Write podophyllotoxin structure and isolation.
- (ii) digoxin isolation method and structure.
- (iii) write about vincristine and vinblastine structure and isolation.

## (II) Major Exp

→ Isolation and detection of caffeine from tea dust.

## (III) Minor Exp

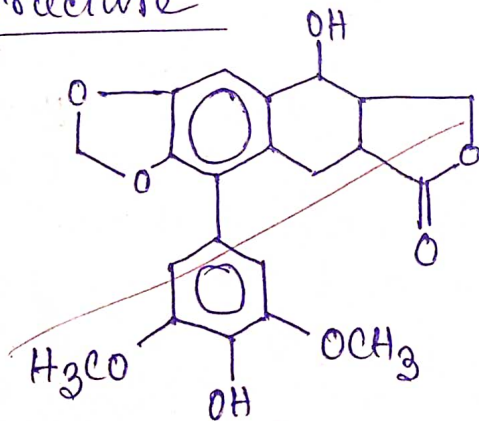
→ Chemical test for benzoic.

## (iv) Records & viva

## Synopsis

①

### Structure



### Isolation :

#### Method-1

→ The roots of podophyllum emodi are powdered and then treated with methanol.



→ The resulting solution is subjected to vacuum reduction.

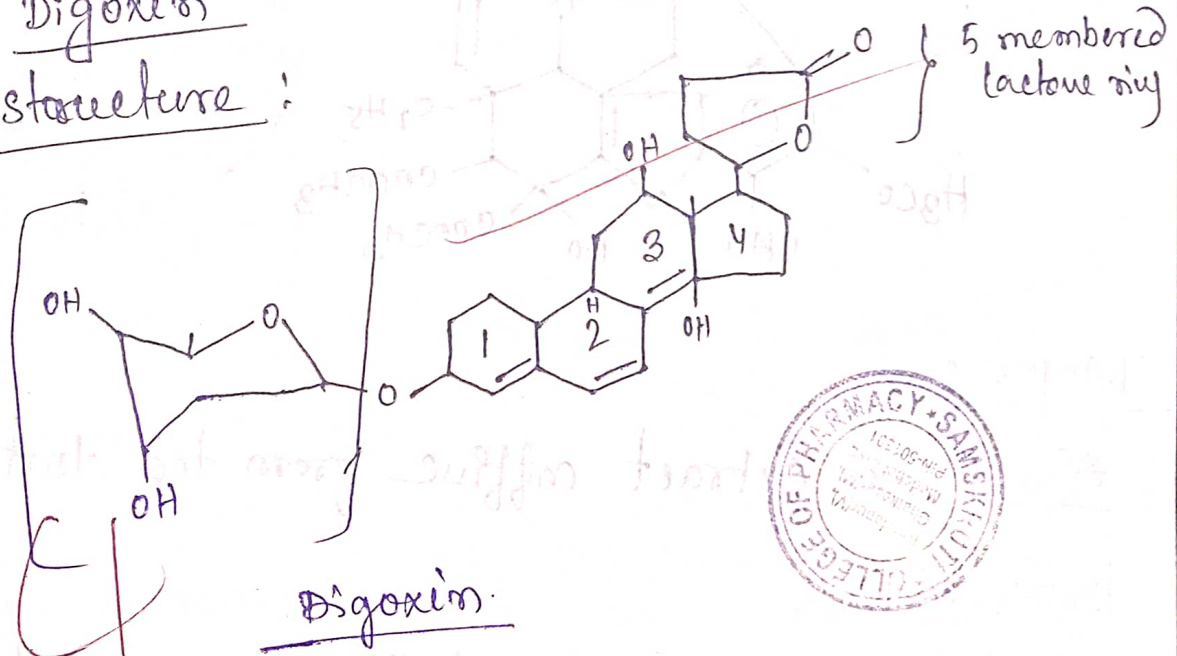
→ Acidulated water that has been prepared by mixing 10 ml HCl and 100 ml of water is added to the semisolid mass obtained upon reduction and allowed to stand for some time.

### Method - II

→ Roots of *P. emodi* in powdered form are spread over neutral alumina and extracted over a period of 1½ - 4 hours using several solvents such as benzene, toluene, xylene etc.

(2)

Digoxin  
structure :

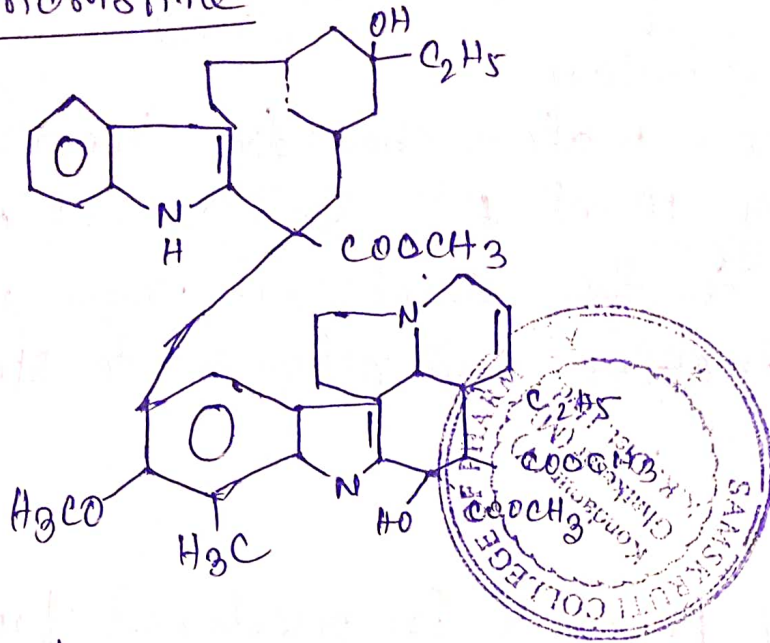


→ Digoxin is isolated from the dried leaves of the plant *Digitalis lanata* belonging to the family Scrophulariaceae.

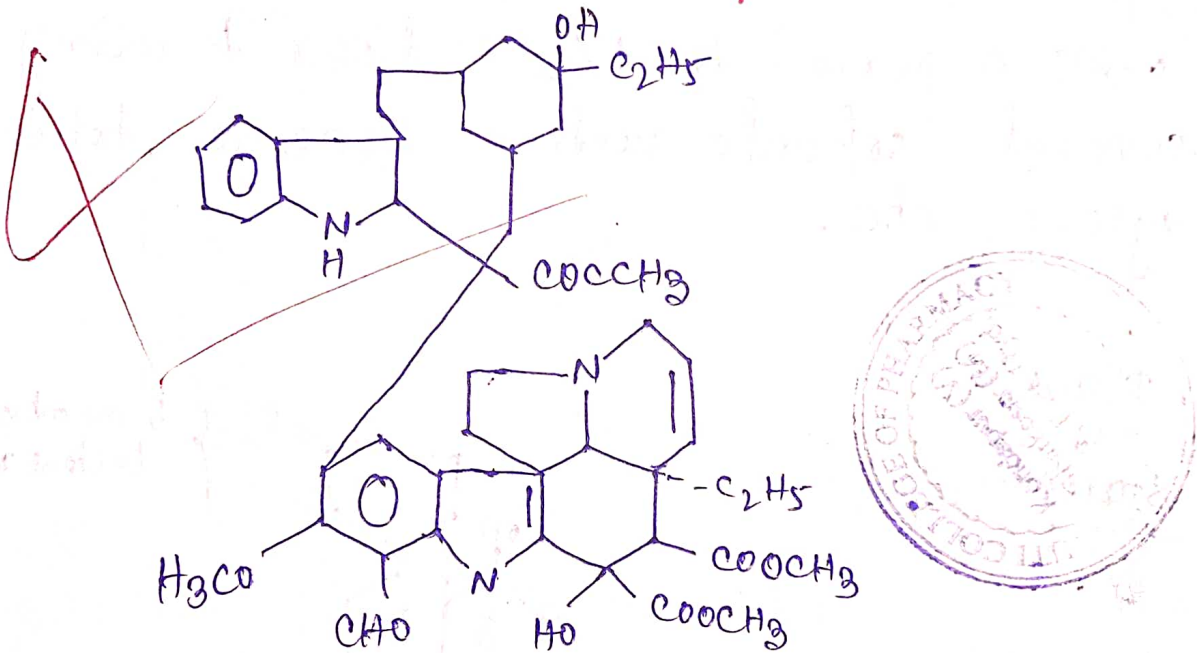


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Venaristhine



Venblastine



Major :

Aim : To extract caffeine from tea dust.

~~Procedure :~~

Isolation : Various methods are used to isolate the caffeine depending upon the source.



## Procedure:

- Extract the coarse powder of the leaves with boiling water and aqueous extract it filtered while hot.
- Lead acetate is added in the warm in hot to precipitate tannins and filtered.
- The excess of lead acetate present in the solution is removed by addition of dil.  $H_2SO_4$  acid solution which forms lead sulfate.
- Filtered solution is boiled with charcoal to remove coloured matters if any and filtered to remove charcoal.
- Filtered decolorized solution is extracted with chloroform.
- Evaporate the chloroform extract so, as to get the caffeine as a white material.
- Recrystallised with alcohol.

## Chemical Test

### 1. Murceide Test:

In a porcelain dish add caffeine and 3 drops of nitric acid. Evaporate to dryness and add 2 drops of ammonium hydroxide solution in the residue a purple color is produced.

Report :

2 We extracted caffeine from the tea powder.

Minor Exp :

~~Also~~ Synonym -

Sumatra benzoin, Laban, Siam Benzoin

Chemical Test :

Sl. No	Test	Observation.
1.	0.5g Benzoin Powder heated with 10ml of $KMnO_4$ .	- odour of Benzaldehyde
2.	Alcoholic solution of Benzoin water	Milky solution
3.	Sublimates after cooling.	crystals of cinnamic acid.
4.	Heat 0.5g Benzoin powder slowly in dry test tube.	evolves irritating whitish fumes which condense to form whitish crystalline sublimate at upper part of test tube.





Uses:

Expectorant - Stimulant, carminative  
diuretic, antiseptic, & protective.

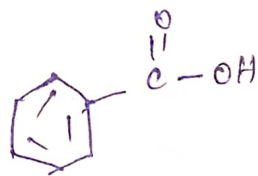
Report:

(1) We observed milky solution addition  
of alcohol.

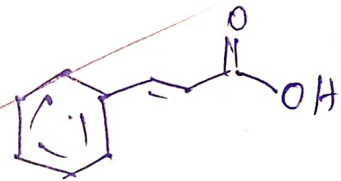
(2) Addition of water it forms crystals.

(3) 50°C heating forms whitish fumes.


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Benzoic Acid



Cinnamic acid.

  
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