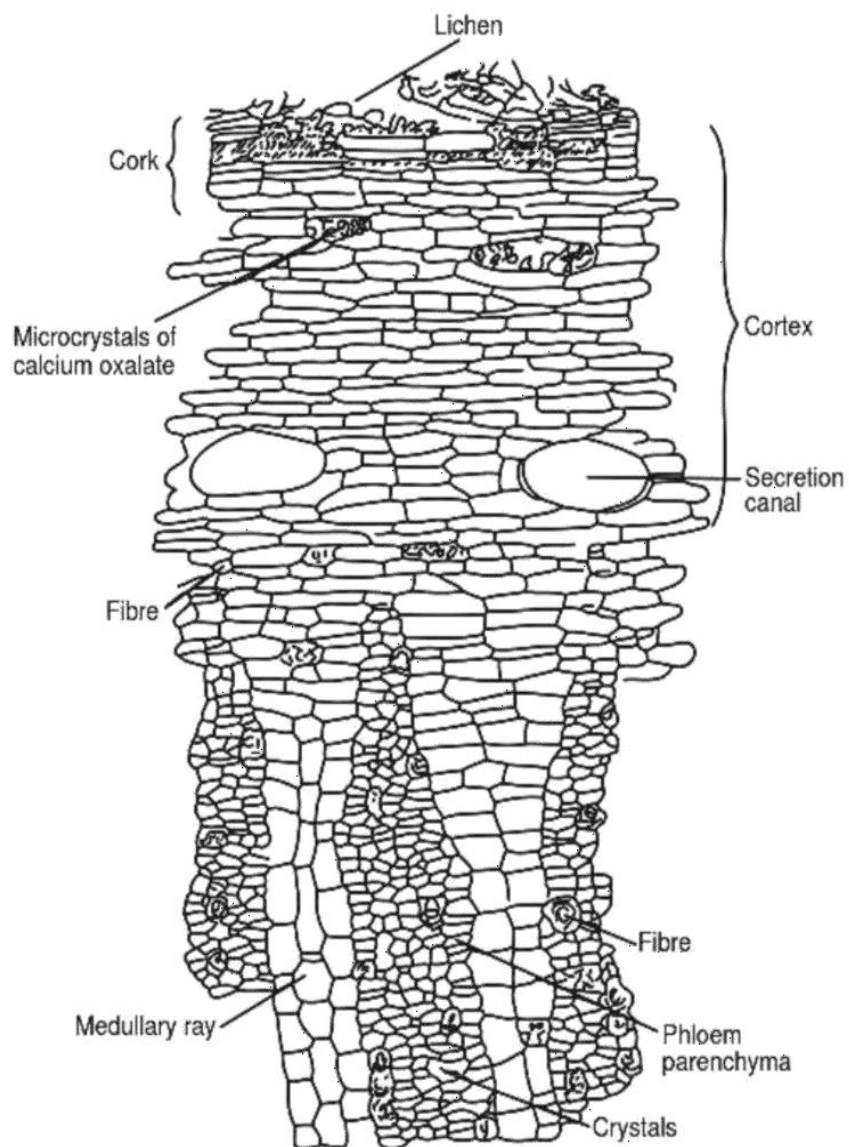


TRANSVERSE SECTION OF CINCHONA BARK

Practical -19

Date: .../.../.....

GROSS ANATOMICAL STUDIES (TRANSVERSE SECTION) OF CINCHONA BARK

Aim: To identify the Transverse Section of Cinchona Bark.

Reference:.....
.....

Requirements:.....

Biological source: Dried bark of cinchona species **Cinchona calisaya wedd, C. Officinalis L.** It contains not less than 6% of total alkaloids of cinchona.

Family: Rubiaceae

Gross anatomical studies:

S. No.	Description	Observation
1.	Cork	
2.	Cortex	
3.	Lichen	
4.	Micro crystal of Calcium oxalate	
5.	Phloem	
6.	Xylem	
7.	Fibers	
8.	Mucilage cell	
9.	Parenchyma	
10.	Secretion Canal	

Report: The given crude drug was identified aswith various histological characters (T.S.).

Questions Bank

1. What are the anatomical studies of Cinchona?
2. Write the biological source of Cinchona Bark.
3. What are the uses of Cinchona Bark?
4. What is the role of secretion canal in Cinchona Bark?
5. What is the role of phloem fibres in Cinchona bark?
6. What is the role of medullary rays in Cinchona Bark?
7. Which cinchona part consist of micro calcium oxalate crystal?
8. What is the role of mucilage cell in Cinchona bark?
9. What is the Lichen?
10. Draw the microscopical structure of Cinchona Bark.