

THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY

(LQ 4261)

FEBRUARY 2020

Sub. Code: 4261

**B.PHARM. DEGREE EXAMINATION  
THIRD YEAR  
PAPER I – PHARMACOGNOSY AND PHYTOCHEMISTRY**

*Q.P. Code: 564261*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:** (2 x 20 = 40)

1. Describe the source, cultivation, collection, macroscopy, microscopy, constituents, uses, adulterants and substitute of Fennel.
2. Write the source, cultivation, collection, macroscopy and microscopy, constituents, uses, adulterants and substitute of Digitalis.

**II. Write notes on:** (8 x 5 = 40)

1. Collection methods for bark crude drugs.
2. Collection methods of Opium.
3. Macroscopy of Vinca.
4. Microscopy study of Nuxvomica.
5. Microscopical evaluation.
6. Preparation of Silk.
7. Glycoalkaloids type of crude drug.
8. Requirements for cultivating Cinnamon.

**III. Short answers on:** (10 x 2 = 20)

1. Vitali Morin's test.
2. Modified Borntrager's test.
3. Source of Ginseng.
4. Adulterants and substitutes of coffee.
5. Source of Lemon grass oil.
6. Any two herbal pesticides.
7. Constituents of liquorice.
8. Source of Cocoa.
9. Any two crude drugs for resin.
10. Adulterants of clove.

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