

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

[B.PHARM 1223]

DECEMBER 2023  
(SEPTEMBER 2023 EXAM SESSION)

Sub. Code: 2082

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)  
PCI Regulation 2017 - SEMESTER VIII  
PAPER III - QUALITY CONTROL AND STANDARDIZATION OF  
HERBALS

*Q.P. Code: 562082*

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions.**

**(2 X 10 = 20)**

1. Explain the role of chemical and biological markers in standardization of herbal products.
2. Write a detailed note on the preparation of documents for export registration.
3. Explain WHO guidelines on current good manufacturing practices of herbal medicines.

**II. Write notes on: Answer any SEVEN questions.**

**(7 x 5 = 35)**

1. Morphological evaluation of crude drugs.
2. Good Agricultural Practices of herbal drugs.
3. Systematic Quality Control analysis of Senna leaf.
4. Research guidelines for evaluation of herbal medicines.
5. Stores under GMP in herbal drug industry.
6. Infrastructural requirements under GMP of herbal drugs.
7. Comparative study of American Herbal Pharmacopoeia and Indian Herbal Pharmacopoeia.
8. Quality Assurance in herbal drug industry.
9. Good practices for the storage of herbal medicinal products.

**III. Short answers on: Answer ALL questions.**

**(10 x 2 = 20)**

1. Define Swelling index.
2. Different types of trichomes.
3. Significance of SOP.
4. Define Quantified Herbal Substances.
5. Any two Harvesting Methods of Medicinal Plants.
6. Primary processing of medicinal plants.
7. What is chemo microscopy?
8. Define shelf-life and give its significance.
9. Acute Toxicity Test.
10. Identification test for genotoxic constituents.

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