

**B.PHARM.****THEORY EXAMINATION (SEM-VIII) 2016-17  
STANDARDIZATION OF HERBAL DRUGS***Time : 3 Hours**Max. Marks : 100**Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.***SECTION – A**

- 1. Explain the following:** **10 x 2 = 20**
- (a) Extraction
  - (b) Commerce
  - (c) Evaluation
  - (d) Adulteration
  - (e) Swelling index
  - (f) Screening method
  - (g) Bitterness value
  - (h) Crude drug
  - (i) Stomatal index
  - (j) Official formulations

**SECTION – B**

- 2. Attempt any five parts of the following question:** **5 x 10 = 50**
- (a) Describe general methods of screening of natural products for Psychopharmacological activity.
  - (b) Discuss methods for estimation and characterization of active plant constituents.
  - (c) Describe various techniques for the isolation, purification and separation of herbal constituents.
  - (d) Elaborate various methods of extractions and discuss percolation and maceration in detail.
  - (e) Discuss different techniques for screening of Anti-inflammatory activity.
  - (f) Discuss organoleptic and microscopical evaluation with examples.
  - (g) Discuss different approaches for hypoglycaemic activity.
  - (h) Describe physical and chemical evaluation in detail.

**SECTION – C**

- Attempt any two parts of the following:** **2 x 15 = 30**
3. Discuss WHO guidelines for Standardization of plant material .Give method for determination of swelling index of plant material as per WHO guideline.
  4. Discuss commerce and quality control of natural medicinal plants products.
  5. Discuss various parameters for the analysis of following official formulations derived from crude drugs
    - (i) Taila
    - (ii) Arishtha
    - (iii) Churna