

**Annual Examination 2022**  
**B. Pharm 4<sup>th</sup> Year**  
**Pharmacognosy-II**

**Time: 3Hrs**

**Max. Marks-80**

**Note: Attempt any five questions:**

1. Define and classify opium alkaloids describe in details method of extraction of opium alkaloids?
2. What is the method of preparation of Taila? Enlist its evaluation parameters and marketed preparation
3. Write note on:  
(A) Extraction of caffeine  
(B) Formulation and evaluation of skin cosmetics
4. Describe the principle behind determination of following evaluation parameters as per WHO guideline (i) bitter value (ii) pesticide residue (iii) Ash value
5. Write biological sources preparations, Identification tests and uses of following Enzymes: (i) Papain (ii) Trypsin
6. Discuss biological sources collection chemical constituents adulterants and urea of: (i) Nux-vomica (ii) Ephedra
7. Write note on :  
(A) Ranunculus  
(B) Purines
8. Write an elaborate note on various plant based industries in India. Describe principle and procedure of super critical fluid extraction technique.
9. Differentiate between:  
(A) Brazilian Ipecac and Panama Ipecac  
(B) Lobelia IP and Lobelia Bp
10. Describe the procedure for extraction and structural elucidation (by instrumental technique) of Atropine and Quinine.