

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**Pharm. D Summer 2022-2023 Examination**

**Year: 2****Subject Code: 08207203****Subject Name: Pharmacognosy and Phytopharmaceuticals****Date: 03/04/2023****Time: 10:00am to 1:00pm****Total Marks: 70****Instructions**

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

**Q.1 Essay Type Questions. (any 2 out of 3) (15 Mark Each) (30)**

1. a) Enlist methods of classification of crude drugs. Explain in detail about the method of classification based on the nature of active chemical constituent present in the crude drugs.  
b) Enlist factors affecting cultivation of crude drugs. Explain the importance of soil and soil fertility in cultivation of crude drugs.
2. a) Write a note on Non-living cell inclusions.  
b) Write a note on Natural pesticides.
3. a) Define and classify lipids. Explain chemistry and methods of analysis of lipids.  
b) Define and classify proteins. Write about methods of analysis of proteins.

**Q.2 Short Essay Type Questions. (any 4 out of 5) (5 Mark Each) (20)**

1. Define Pharmacognosy. Elaborate about the scope of pharmacognosy.
2. Write a note on Plant growth regulators.
3. Define Alkaloids. Describe their properties and chemical test for identification.
4. Define Adulteration. Describe various methods used for adulteration of crude drugs.
5. Define and classify fibers. Write biological source, family, chemical constituents, and uses of Jute.

**Q.3 Short Answers. (2 Mark Each) (20)**

1. What is chemo - taxonomical classification of crude drugs?
2. Differentiate organized and unorganized crude drugs.
3. Define (i) Mutation (ii) Polyploidy
4. Elaborate about Collection of crude drugs.
5. Define and classify Tannins.
6. Define glycosides. Give chemical test for identification of anthraquinone glycosides.
7. Write a pharmacognostic note on Tragacanth.
8. Write Biological source, family, chemical constituents and uses of Castor oil.
9. Write a note on Surgical dressings.
10. Write Biological source, family, chemical constituents and uses of Silk.