

**FACULTY OF PHARMACY**  
**Pharm. D (6 YDC) II-Year (Main) Examination, July 2017**

**Subject : Pharmacognosy and Phytopharmaceuticals**

**Time : 3 Hrs****Max. Marks: 70**

***Note: Answer all questions from Part - A and answer any five questions from Part-B.***

**PART – A (10 x 2 = 20 Marks)**

- 1 What are ergastic substances? Give examples.
- 2 Write abt drying of crude drugs.
- 3 Define the terms : (a) Resin (b) Denaturation
- 4 Give the morphological classification of crude drugs with examples.
- 5 Explain the structure of calcium oxalate crystals with examples.
- 6 Explain the term : (a) Polyploidy (ii) Iodine value
- 7 Define and classify lipids with examples.
- 8 With the help of neat diagrams, give the powder characters of liquorice.
- 9 Mention the biological srce and uses of sterculia.
- 10 Write abt: (a) Kelles killiani test (b) Super critical fluid extraction method

**PART – B (5 x 10 = 50 Marks)**

- 11 (a) What are the different methods of classification of crude drugs? Write briefly abt the chemical classification with examples.  
(b) Explain the application of plant growth hormones.
- 12 (a) Define and mention the different methods of cultivation of medicinal plants. Mention the merits and demerits.  
(b) Discuss scope of pharmacognosy.
- 13 (a) Explain how the mutation technique is helpful to improve the yield of medicinal compnds.  
(b) Explain the structure of plant cell wall.
- 14 Write the pharmacognostic scheme of : (a) Ginger (b) Ergot
- 15 (a) Explain different methods of adulteration of crude drugs with examples.  
(b) Write a note on natural pesticides.
- 16 With the help of neat labeled diagram explain the microscopical characters:  
(a) Ephedra  
(b) Datura
- 17 (a) Describe the method of preparation of cotton.  
(b) What are different chemical classes of secondary metabolites? Write a short note on Tannins.
- 18 Discuss the biological srce, chemical constituents and uses :  
(a) Guggal (b) Ashwagandha (c) Gelatin

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