

FACULTY OF PHARMACY**Pharm. D II-Year (6 YDC) (Main & Backlog) Examination, August 2016****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 Define the terms :
(a) Crude drug (b) Substitutes
- 2 List t different types of vegetative propagation methods w ith examples.
- 3 Write the biological srce, chemical constituents of pyrethrum.
- 4 What are saponins? Give two identification tests.
- 5 With neat diagrams, give the powder characters of quassia.
- 6 Define the terms: (a) Zwitter ion (b) Swelling index
- 7 How do y distinguish Born tragger's and modified born tragger's test?
- 8 Define and classify proteins.
- 9 Write two identification tests for guar gum and sterculia.
- 10 List essential amino acids and write their structures.

PART – B (5 x 10 = 50 Marks)

- 11 (a) Give a brief acctnt on cell inclusions with examples. (5)
(b) List t different systems of classification for crude drugs. Explain in indetail pharmacological classification with examples. (5)
- 12 (a) Discuss briefly the flavanoids with examples. (5)
(b) Write abt different methods of crop improvement. Explain any one method with examples. (5)
- 13 (a) Define acid value. Explain the principle involved and method to determine it. (5)
(b) Write a note on importance of indole alkaloids with examples. (5)
- 14 (a) What are different processing parameters for the preparation of crude drugs to market. (5)
(b) Write abt "lignin and pectin" as cell wall components. (5)
- 15 With a neat labelled diagram write the histological characters for
(i) clove (ii) podophyllum (5+5)
- 16 (a) Explain the structure of protein and list t different methods for its determination and explain any one in detail. (6)
(b) Define drug adulteration. Explain how to prevent it. (4)
- 17 (a) Classify natural fibres. Give the biological srces, chemical constituents and uses of hemp. (5)
(b) Write abt purine alkaloids with examples. (5)
- 18 Write the biological srce, chemical constituents and uses of : (4+3+3)
(a) Opium (b) Pale catehu (iii) Benzoin
