

(LC 4268)

FEBRUARY 2013

Sub. Code: 4268

FOURTH YEAR B.PHARM. EXAM

Paper II – ADVANCED PHARMACOGNOSY

Q.P. Code: 564268

Time: Three Hours
(180 Min)

Maximum: 100 marks

I. ELABORATE ON:

(2x20 = 40)

1. (a) Explain the methods for the isolation of secondary metabolites from crude plant material
(b) Define culture. Explain the types of plant tissue culture and application of tissue culture in pharmacy. [10 + 10]
2. (a) Explain the industrial production and utilization of tropane alkaloids
(b) Describe the WHO guidelines for assessment of herbal medicines [10 + 10]

II SHORT NOTES

(8x 5 = 40)

1. Purification of enzymes
2. Export potential of medicinal plants
3. Role of infra red spectroscopy in evaluation of plant constituents
4. Biogenesis of morphine
5. Estimation of heavy metals in herbal preparations
6. Write a note of allergenic extracts
7. Plants having anti HIV activity
8. Write a note on Siddha and Homeopathy

III SHORT ANSWERS

(10 x 2 = 20)

1. Define totipotency
2. Uses of pepsin
3. Difference between churnas and lehyas
4. Define cloning
5. Enumerate plants with anti viral potency
6. Difference between total extract and tincture
7. Principle in paper chromatography
8. Enumerate the nutritional requirements of cultures.
9. Name the alkaloids of vinca
10. Enumerate radioactive isotopes used in investigation of biogenetic studies.
