

(LD 4268)

AUGUST 2013

Sub. Code: 4268

FOURTH YEAR B.PHARM. EXAM
PAPER II – ADVANCED PHARMACOGNOSY*Q.P. Code: 564268***Time: Three Hours****Maximum: 100 marks****I. Elaborate on:****(2X20=40)**

1. Explain with examples how the secondary metabolites of pharmaceutical importance are produced through tissue culture technique.
2. Discuss the industrial production and utilization of
 - a. Senna glycosides
 - b. Vinka alkaloids

II. Write notes on:**(8X5=40)**

1. Role of radio active isotopes in biogenetic studies
2. Preparation and standardization of churnas
3. Export potential of medicinal plants in India
4. Application of HPTLC
5. Composition of typical tissue culture medium for production of callus
6. Use of electrophoresis in phytochemical analysis
7. Production and utilization of citric acid
8. Plant growth regulators used in tissue culture

III. Short Answers on:**(10X2=20)**

1. Mention the spray reagents used to detect alkaloids
2. Use of the enzyme papain
3. Ash values
4. Define Asawas
5. Pharmaceutical application of Diosgenin
6. List out any basic metabolic pathways
7. Organogenesis
8. Autoradiography
9. Holistic medicines
10. Define Gutikas
