

(LF 4268)

AUGUST 2014

Sub. Code: 4268

**FOURTH YEAR B.PHARM. EXAM  
PAPER II – ADVANCED PHARMACOGNOSY**

*Q.P. Code: 564268*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Essay:**

**(2X20=40)**

1. a) Discuss about plant growth regulators and their application in production of secondary metabolites.  
b) Discuss in brief the utilization of radioactive isotopes in biogenetic studies.
2. Write a brief note on chromatographic techniques employed in phytochemical analysis.

**II. Short notes:**

**(8X5=40)**

1. Give the preparation and uses of papain.
2. Preparation and standardisation of Aristas.
3. Production and utilization of quinine.
4. Application of plant tissue culture.
5. Basic principles involved in Siddha system of medicine.
6. Natural allergens.
7. Stability tests for herbal extracts.
8. Importance of pharmacognosy in herbal drug industry.

**III. Short Answers:**

**(10X2=20)**

1. Structure, biological source and use of quinine.
2. Biological source and use of solasodine.
3. What are Bhasmas?
4. Give examples for steroidal glycosides
5. Electrophoresis
6. Teratogenic plants
7. Use of Gossypol and Vidarabine.
8. Pharmaceutical application of Diosgenin.
9. Totipotency
10. Name any two basic metabolic pathways in the formation of plant secondary metabolites.

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