

[LB 4268]

AUGUST 2012

Sub. Code: 4268

FOURTH YEAR B.PHARM. EXAM
Paper II – ADVANCED PHARMACOGNOSY
Q.P. Code: 564268

Time: 180 Minutes

Maximum : 100 marks

(180 Min) Answer ALL questions in the same order.

I. Elaborate on:

Pages Time Marks
(Max.)(Max.)(Max.)

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|--|----|----|----|
| 1. a. Dwell on the utilization of radioactive isotopes in the investigation of biogenetic studies. | 19 | 33 | 20 |
| b. Stability test for herbal extracts. | | | |
| 2. Elaborate on the preparation and standardization of | 19 | 33 | 20 |
| a. Bhasmas | | | |
| b. Lehyas | | | |

II. Write notes on:

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| 1. Biosynthesis of morphine. | 3 | 8 | 5 |
| 2. Brief note on basic metabolic pathways leading to the formulation of plant secondary metabolites. | 3 | 8 | 5 |
| 3. Types of allergenic extracts. | 3 | 8 | 5 |
| 4. Production and applications of quinoline alkaloids. | 3 | 8 | 5 |
| 5. Note on single cell culture. | 3 | 8 | 5 |
| 6. Principle of sidha system of medicine. | 3 | 8 | 5 |
| 7. Preparation of aristas. | 3 | 8 | 5 |
| 8. Export potential of medicinal and aromatic plants of India. | 3 | 8 | 5 |

III. Short Answers:

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| 1. Define asavas. | 1 | 5 | 2 |
| 2. What are allergens? Give examples. | 1 | 5 | 2 |
| 3. What are enzyme reactors? | 1 | 5 | 2 |
| 4. Chemical structure and uses of menthol, citric acid. | 1 | 5 | 2 |
| 5. Applications of pectinase, papain. | 1 | 5 | 2 |
| 6. Different methods of feeding radio isotopes in tracer techniques. | 1 | 5 | 2 |
| 7. Define totipotency. | 1 | 5 | 2 |
| 8. Role of plant tissue culture in production of secondary metabolites. | 1 | 5 | 2 |
| 9. What are gutikas? | 1 | 5 | 2 |
| 10. Give examples of phytoconstituents subjected to spectral analysis. | 1 | 5 | 2 |
