

MPY-203(Pch)  
M. Pharm. (Pharmaceutical Chemistry)  
(Second Semester) EXAMINATION, June, 2012  
(Grading Non-Grading)  
ADVANCED PHARMACEUTICAL CHEMISTRY  
[MPY-203(Pch)]  
Time : Three Hours Maximum Marks

Note : Attempt any five questions. All questions carry equal marks.

- 1 (a) Discuss the role of mass spectroscopy in the analysis of herbal drugs.  
(b) Write a short account of HPTLC as a technique involved in standardization of herbal products.
- 2 (a) Narrate the biosynthetic route for oxytocin and its importance.  
(b) Discuss chemistry of fl-lactum antibiotics with its method of isolation.
3. Explain the following :  
(a) Biosynthesis of atropine  
(b) Biosynthesis of cephalosporin
4. (a) Discuss isolation and purification of constituents of Ergot.  
(b) Give all the steps involved in tnevolonate pathway.
5. Explain any two of the following :  
(a) Biosynthetic study of any one sex hormone  
(b) Phytochemical studies of digitals glycosides  
(c) Isolation of macrolide antibiotics from micro- organisms.
6. (a) How tracer techniques have become an integral part of medical science now-a days ?  
(b) Give the constitution and applications of thyroid hormones.
7. (a) Discuss electro chromatography with its applications as isolation techniques for natural products.  
(b) Describe biosynthesis of adrenocorticoids.
8. (a) Discuss the method of supercritical fluid extraction techniques.  
(b) Give isolation and phytochemical evaluation of Taxol.

