

**NEW**

**2016**

**M B A**

**4th Semester Examination**

**Subject : PHARMACOLOGY AND DRUG REGULATORY  
AFFAIRS**

**(Specialization : Pharma Management)**

**PAPER—PM-401**

*Full Marks : 100*

*Time : 3 Hours*

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their  
own words as far as practicable.*

*Illustrate the answers wherever necessary.*

1. Answer any *eight* questions : 8×5

(a) What do you mean by the term 'chemotherapy'?  
Outline the general principles of chemotherapy.

*(Turn Over)*

- (b) Classify antibiotics with examples.
- (c) Write the pharmacological actions of atropine on eye and smooth muscles.
- (d) Write short notes on : (i) Quinolines ; (ii) Sulfonamides.
- (e) Write short notes on : Drug addiction and Drug abuse.
- (f) Briefly explain the pharmacology of : (i) Anticoagulants, (ii) Haematinics.
- (g) Write short notes on ; (i) Bronchodilators, (ii) Laxatives.
- (h) Classify anti-asmatic drugs.
- (i) Describe the factors modifying drug effects.
- (j) Give an overview of national drug policy.
- (k) Give an descriptive overview of Schedule M of Drug & Cosmetic Act.
- (l) Give a brief note on 'Patent' with reference to Pharmaceutical products.

2. Answer any *four* questions : 4×10

(a) Explain the pharmacological profile of any *four* of the following drugs : 4×2.5

- (i) Local anesthetics, (ii) Sedatives ; (iii) NSAIDS,

- (iv) Narcotic analgesics, (v) Antidepressants, (vi) Anti-anginal drugs.
- (b) Write a brief overview on various routes of drug administration with the merits and demerits.
- (c) Describe the different phases of clinical trial during new drug development process.
- (d) (i) Write short notes on : (a) WTO, (ii) TRIPS.  
(ii) Illustrate the important guidelines of EMEA on CGMP. 5+5
- (e) (i) Explain the mode of action, uses and adverse effects of Paracetamol.  
(ii) Give a Pharmacological account of the drugs used in management of hypertension. 5+5
- (f) Discuss the various types of Intellectual Property (IP) with reference to Pharmaceutical industry. What are the importance and application of IP? 6+(2+2)

**[ Internal Assessment : 20 Marks ]**