

# Contents

## *Preface*

v

<b>1. Introduction to Pharmacology</b>	<b>1</b>
A History and Evolution of Pharmacology	3
B. The Role of Pharmacology in Disease Management	4
<b>2. General Pharmacology</b>	<b>5</b>
<b>3. Clinical Pharmacology</b>	<b>9</b>
<b>4. Experimental Pharmacology</b>	<b>13</b>
<b>5. Routes of Drug Administration</b>	<b>16</b>
<b>6. Drug Formulations and Drug Delivery Systems</b>	<b>20</b>
<b>7. Antibiotic Stewardship</b>	<b>22</b>
<b>8. Pharmacovigilance and Adverse Drug Reaction Reporting Systems</b>	<b>23</b>
<b>9. Pharmacogenomics and Pharmacoeconomics</b>	<b>25</b>
<b>10. Prescription Writing</b>	<b>27</b>
<b>11. Drug Labelling</b>	<b>35</b>
<b>12. P-Drug Concept</b>	<b>39</b>
<b>13. Calculation of Drug Dosage</b>	<b>41</b>
<b>14. Drug Abuse and Drug De-addiction</b>	<b>45</b>
<b>15. Vaccines</b>	<b>47</b>
<b>16. National Health Programmes</b>	<b>49</b>
<b>17. OTC (Over-the-Counter) Drugs</b>	<b>53</b>
<b>18. Essential Medicines</b>	<b>55</b>
<b>19. Fixed Dose Combinations</b>	<b>60</b>
<b>20. Herbal Medicines</b>	<b>62</b>

21. Drug Regulations in India	63
22. Drug Advertisement	65
23. Drug Development and Clinical Trials	66
24. Miscellaneous Topics	70
25. Recent Advances in Pharmacology	72
26. Simulation Based Teaching (Skills Lab)	74
27. Attitude, Ethics and Communication (AETCOM)	78
28. Integration	82
Final Summary	85