

# Contents

<i>Preface</i> .....	ix
<i>List of Contributors</i> .....	xi
<i>Introduction</i> .....	xv

## Section A: (Vedanta Section)

1. History of Orthodontics: Brief Review .....	3
2. Basic Principles of Craniofacial Growth and Development.....	11
3. Theories of Growth and Development .....	26
4. Dentition and Habits: Brief Concept .....	37
5. Occlusion, Malocclusion and Etiology of Malocclusion.....	61
6. Recent Advances in Orthodontics Diagnostic Aids .....	74
7. Model Analysis.....	89
8. Maturation Indices .....	96
9. Extraction Distalization and Anchorage in Orthodontics: A Brief Review.....	100
10. Implant: As an Anchorage in Orthodontics .....	107
11. Evolution of Orthodontic Appliances .....	117
12. Evolution of Orthodontic Brackets and Designs .....	159
13. Recent Advances in Begg Mechanotherapy: A Brief Review on Refined and Modified Begg .....	182
14. Orthopedic Appliances .....	229
15. Rapid Maxillary Expansion Appliances .....	241

16. Class III Malocclusion: Diagnosis and Treatment .....	251
17. Clear Aligner Therapy (Invisalign): A Brief Review .....	271
18. Recent Advances in Orthodontic Materials .....	280
19. Recent Advances in Arch Form: Theory and Concept.....	289
20. Magnets in Orthodontics: Recent Advances .....	296
21. Retention: A Recent Outlook .....	304
22. Orthodontic Scars: Root Resorption as an Orthodontic Problem .....	328
23. Obstructive Sleep Apnea Syndrome (OSAS): An Orthodontic Perspective .....	333
24. Cranio-Facial Disorders and Cleft Lip and Palate: Recent Advances .....	341
25. Recent Advances in Craniofacial Distraction Osteogenesis: Principles and Applications .....	360
26. Temporomandibular Joint (TMJ): Evolution and Special Features ..	383
27. Temporomandibular Joint Disorders (TMD): Key Concepts .....	390

## **Section B: (Multiple Choice Questions with Solutions)**

MCQs (Based on William R. Proffit Textbook) .....	405
MCQs: Miracle Mix (Part-1) .....	460
MCQs: Miracle Mix (Part-2) .....	472
MCQs: Miracle Mix (Part-3) .....	492
MCQs: Based on M.B.T. Straight Wire Technique .....	514
<i>Appendix-I</i> .....	518
<i>Appendix-II</i> .....	522
<i>Appendix-III</i> .....	534
<i>References</i> .....	540
<i>Index</i> .....	542