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Approval									

Revised B.D.S regulation 2007 approved by dental council of India.

## **DR.M.G.R EDUCATIONAL & RESEARCH INSTITUTE UNIVERSITY**

### **DEPARTMENT OF PAEDIATRIC & PREVENTIVE DENTISTRY**

**UNIT 1.** Introduction-Definition-Scope-Objectives And Importance.

**UNIT 2.** Growth & Development:Importance Of Study Of Growth And Development In Pedodontics-Prenatal And Postnatal Factors In Growth & Development-Theories Of Growth & Development-Development Of Maxilla And Mandible-Related Age Changes.

**UNIT 3.** Development Of Occlusion From Birth Through Adolescence-Study Of Variations And Abnormalities.

**UNIT 4.** Dental Anatomy And Histology:Development Of Teeth And Associated Structures-Eruption And Shedding Of Teeth-Teething Disorders And Their Management-Chronology Of Eruption Of Teeth-Differences Between Deciduous And Permanent Teeth-Development Of Dentition From Birth To Adolescence-Importance Of First Permanent Molar.

**UNIT 5.** Dental Radiology Related To Pedodontics.

**UNIT 6.** Oral Surgical Procedures In Children-Indications And Contraindications Of Extractions Of Primary And Permanent Teeth In Children- Knowledge Of Local And General Anesthesia-Minor Surgical Procedures In Children.

**UNIT 7.** Dental Caries: Historical Background-Definition, Aetiology & Pathogenesis-Caries Pattern In Primary, Young Permanent And Permanent Teeth In Children-Rampant Caries, Early Childhood Caries And Extensive Caries-Definition, Aetiology, Pathogenesis, Clinical Features, Complications & Management-Role Of Diet And Nutrition In Dental Caries-Dietary Modifications & Diet Counseling-Caries Activity, Tests, Caries Prediction, Caries-Susceptibility & Their Clinical Application.

**UNIT 8.**Gingival & Periodontal Diseases In Children-Normal Gingiva & Periodontium In Children-Definition, Aetiology & Pathogenesis-Prevention & Management Of Gingival & Periodontal Diseases.

**UNIT 9.** Child Psychology: Definition-Theories Of Child Psychology-Psychological Development Of Children With Age-Principles Of Psychological Growth & Development While Managing Child Patient-Dental Fear And Its Management-Factors Affecting Child's Reaction To Dental Treatment.

**UNIT 10.** Behaviour Management:Definitions-Types Of Behaviour Encountered In The Dental Clinic-Non-Pharmacological & Pharmacological Methods Of Behaviour Management.

**UNIT 11.** Pediatric Operative Dentistry: Principles Of Pediatric Operative Dentistry-Modifications Required For Cavity Preparation In Primary And Young Permanent Teeth-Variou Isolation Techniques- Restorations Of Decayed Primary-Young Permanent And Permanent Teeth In Children Using-Variou Restorative Materials Like Glass Ionomer, Composites & Silver Amalgam. Stainless Steel, Polycarbonate & Resin Crowns.

**UNIT 12.** Pediatric Endodontics-Principles & Diagnosis-Classification Of Pulpal Pathology In Primary, Young Permanent & Permanent Teeth- Management Of Pulpally Involved Primary, Young Permanent & Permanent Teeth-Pulp Capping Direct & Indirect-Pulpotom- Pulpectomy-Apexogenesis-Apexification-Obturation Techniques & Material Used For Primary, Young Permanent & Permanent Teeth In Children.

**UNIT 13.** Traumatic Injuries In Children: Classifications & Importance- Sequelae & Reaction Of Teeth To Trauma-Management Of Traumatized Teeth.

**UNIT 14.** Preventive & Interceptive Orthodontics: Definitions-Problems Encountered During Primary And Mixed Dentition Phases & Their Management-Serial Extractions-Space Management.

**UNIT15.** Oral Habits In Children: Definition, Aetiology & Classification-Clinical Features Of Digit Sucking, Tongue Thrusting, Mouth Breathing & Various Other Secondary Habits- Management Of Oral Habits In Children.

**UNIT 16.** Dental Care Of Children With Special Needs: Definition, Aetiology, Classification, Behavioural And Clinical Features & Management Of Children With: Physically Handicapping Conditions- Mentally Compromising Conditions-Medically Compromising Conditions- Genetic Disorders.

**UNIT 17.** Congenital Abnormalities In Children: Definition, Classification, Clinical Features & Management.

**UNIT 18.** Dental Emergencies In Children & Their Management.

**UNIT 19.** Dental Materials Used In Pediatric Dentistry.

**UNIT 20.** Preventive Dentistry: Definition-Principles & Scope-Types Of Prevention-Different Preventive Measures Used In Pediatric Dentistry Including Pit And Fissure Sealants And Caries Vaccine.

**UNIT 21.** Dental Health Education & School Dental Health Programmes.

**UNIT22-**Fluorides: Historical Background.- Systemic-Topical Fluorides.-Mechanism Of Action.-Toxicity & Management-Defluoridation Techniques.

**UNIT 23.** Case History Recording:- Outline Of Principles Of Examination, Diagnosis & Treatment Planning.

**UNIT 24.** Setting Up Of Pedodontic Clinic.

**UNIT 25.** Ethics.

**TOTAL NUMBER OF HOURS: LECTURE-65,CLINICALS-170**

**RECOMMENDED BOOKS:**

1. Pediatric Dentistry (Infancy through Adolescence) – Pinkham.
2. Kennedy’s Pediatric Operative Dentistry – Kennedy & Curzon.
3. Occlusal guidance in Pediatric Dentistry – Stephen H. Wei.
4. Clinical Use of Fluorides – Stephen H. Wei.
5. Pediatric Oral & Maxillofacial Surgery – Kaban.
6. Pediatric Medical Emergencies – P. S. Whatt.
7. Understanding of Dental Caries – Niki Foruk.
8. An Atlas of Glass Ionomer cements – G. J. Mount.
9. Clinical Pedodontics – Finn.
10. Textbook of Pediatric Dentistry – Braham Morris.
11. Primary Preventive Dentistry – Norman O. Harris.
12. Handbook of Clinical Pedodontics – Kenneth. D.
13. Preventive Dentistry – Forrester.
14. The Metabolism and Toxicity of Fluoride – Garry M. Whitford.
15. Dentistry for the Child and Adolescence – Mc. Donald.
16. Pediatric Dentistry – Damle S. G.
17. Behaviour Management – Wright
18. Pediatric Dentistry – Mathewson.
19. Traumatic Injuries – andreason.
20. Occlusal guidance in Pediatric Dentistry – Nakata.
21. Pediatric Drug Therapy – Tomare
22. Contemporary Orthodontics – Profit..
23. Preventive Dentistry – Depaola.
24. Metabolism & Toxicity of Fluoride – whitford. G. M.
25. Endodontic Practice – Grossman.
26. Principles of Endodontics – Munford.
27. Endodontics – Ingle.
28. Pathways of Pulp – Cohen.
29. Management of Traumatized anterior Teeth – Hargreaves.