BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE, INDIA

PhD Entrance Test – 2025 SECTION-II: Pediatric and Preventive Dentistry - 35 Marks

- 1. Growth & development: Prenatal and Postnatal development of cranium, face, jaws, teeth and supporting structures. Chornlogy of dental development and development of occlusion. Dimensional change in dental arches. Cephalometric evaluation of growth.
- **2. Child psychology**: Development & Classification of behavior, personality intelligence in children, theories of child psychology, stages of psychological child development, fear anxiety, apprehension & its management..
- **3. Behavior management**: Non- pharmacological & pharmacological methods.
- 4. Child abuse & dental neglect.
- 5. Conscious sedation, deep sedation & general anesthesia in pediatric dentistry.
- 6. Preventive paedodontics

7. Gingival & periodontal diseases in children

- Normal gingiva & Periodontium in Children.
- Gingival & periodontal diseases Etiology, Pathogenesis, Prevention, & Management.

8. Pediatric operative dentistry

- Principle of Operative Dentistry.
- Modifications required for cavity preparation in primary and young permanent teeth.
- Restorations of decayed primary, young permanent and permanent teeth
- Stainless steel, polycarbonate & Resin Crowns / Veneers & fibre post systems.

9. Pediatric endodontics

- a. Primary Dentition: Diagnosis of pulpal diseases and treatment.
- b. Endodontic procedures in Young permanent teeth and permanent teeth.
- c. Recent advances in Pediatric diagnosis and Endodontics.

10. Traumatic injuries in children:

- Classification & Importance.
- Sequalae & reaction of teeth to trauma.
- Management of traumatized teeth with latest concepts.
- Management of jaw fracture in children.

11. Oral habits in children:

12. Dental care of children with special needs:

- Definition, Etiology, Classification, Behavioral, Clinical feature & Management of children with:
 - Physically handicapping conditions.
 - Mentally compromising conditions.
 - Medically compromising conditions.
 - Genetic disorders.

13. Oral manifestations of systemic conditions in children & their management.

14. Cariology:

- Definition, Aeitology & 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
- Dietary modification & Diet counseling.
- Subjective & objective method of cares detection.
- **15**. **Paediatric oral medicine & clinical pathology**: Recognition & Management of developmental dental anomalies, teething disorders, stomatological condition mucosal lesions, viral infection etc.

16. Preventive dentistry:

- Definition.
- Principles & Scope.
- Types of prevention.
- Different preventive measures used in Pediatric dentistry including fissure sealants and caries vaccine.

17. Fluorides:

- Historical background.
- Systematic & Topical fluorides.
- Mechanism of action.
- Toxicity & Management.
- Defluoridation techniques.

REFERENCE BOOKS:

- 1. Textbook of Pedodontics: Shoba Tandon: 2nd edition
- 2. Fundamentals of Pediatric Dentistry:Mathewson
- 3. Pediatric Dentistry:Infancy through Adolescence:Pinkham:4th edition
- 4. Dentistry for the Child and Adolescent: McDonald: 13th edition
- 5. Pediatric Dentistry Clinical Approach: Koch Goran: 2nd ed.
- 6. Pediatric Dentistry: Welbury: 3rd edition