

Paper II: Technical Subject

1. **History of Periodontics, scope and limitations**
2. **Periodontium**
 - 2.1 Normal Periodontium
 - 2.1.1 Gingiva
 - 2.1.2 Periodontal ligament
 - 2.1.3 Cementum
 - 2.1.4 Alveolar bone
 - 2.2 Development of Periodontium
 - 2.3 Aging and the Periodontium
3. **Classification and Epidemiology of Periodontal diseases**
 - 3.1 Classification of Periodontal diseases and conditions
 - 3.2 Epidemiology of Gingival and Periodontal diseases
4. **Etiopathogenesis**
 - 4.1 Defense mechanism of gingiva
 - 4.2 Normal microflora of oral cavity
 - 4.3 Periodontal microbiology
 - 4.4 Periodontal pathogens
 - 4.5 Inflammation, immunity and oral infection
 - 4.6 Host - Microbial interaction in periodontal diseases
 - 4.7 Pathogenesis of plaque associated periodontal diseases
 - 4.8 Role of virus in Periodontal diseases
 - 4.9 Dental calculus
 - 4.10 Role of iatrogenic and other local factors
 - 4.11 Role of genetics in Periodontal diseases
 - 4.12 Role of tobacco in Periodontal diseases
 - 4.13 Role of stress in Periodontal diseases
 - 4.14 Occlusion and Periodontal diseases
 - 4.15 Food impaction
5. **Relationship between Periodontal disease and systemic health**
 - 5.1 Influence of systemic conditions on the Periodontium
 - 5.2 Impact of Periodontal Infection on systemic health
 - 5.2.1 Periodontal disease and Cardiovascular diseases
 - 5.2.2 Periodontal disease and Respiratory diseases
 - 5.2.3 Periodontal diseases and Diabetes mellitus
 - 5.2.4 Periodontal diseases and Adverse pregnancy outcomes
6. **Periodontal Pathology**
 - 6.1 Gingival diseases
 - 6.1.1 Gingival inflammation
 - 6.1.2 Clinical features of gingivitis
 - 6.1.3 Gingival enlargement

- 6.1.4 Acute gingival infections
- 6.1.5 Gingival diseases in childhood
- 6.1.6 Desquamative gingivitis
- 6.2 Periodontal diseases
 - 6.2.1 Periodontal pocket
 - 6.2.2 Mechanism of tissue destruction
 - 6.2.3 Bone loss – Mechanisms and pattern of bone destruction
 - 6.2.4 Periodontal response to external forces
 - 6.2.5 Chronic Periodontitis
 - 6.2.6 Aggressive Periodontitis
 - 6.2.7 Necrotizing Ulcerative Periodontitis
- 7. **Masticatory system disorders**
- 8. **Treatment of Periodontal disease**
 - 8.1 Diagnosis, prognosis and treatment planning
 - 8.1.1 Clinical diagnosis
 - 8.1.2 Radiographic and other aids in the diagnosis of periodontal diseases
 - 8.1.3 Advanced diagnostic techniques
 - 8.1.4 Risk assessment
 - 8.1.5 Determination of prognosis
 - 8.1.6 Treatment plan
 - 8.1.7 Rationale for periodontal treatment
 - 8.1.8 Levels of clinical significance
 - 8.1.9 Periodontal treatment of Medically compromised patients
 - 8.1.10 Periodontal therapy in the female patient
 - 8.1.11 Periodontal treatment for older adults
 - 8.1.12 Treatment of aggressive and atypical forms of periodontitis
 - 8.2 **Treatment of Periodontal emergencies**
 - 8.2.1 Treatment of acute gingival disease
 - 8.2.2 Treatment of Periodontal abscess
 - 8.3 **Non surgical therapy**
 - 8.3.1 Phase I Periodontal therapy
 - 8.3.2 Plaque control
 - 8.3.3 Scaling and root planing
 - 8.3.4 Sonic and ultrasonic instrumentation and irrigation
 - 8.3.5 General principles of anti-infective therapy with special emphasis on infection control in Periodontal practice
 - 8.3.6 Antimicrobial and other chemotherapeutic agents in periodontal therapy
 - 8.3.7 Host modulation
 - 8.3.8 Occlusal evaluation and therapy
 - 8.3.9 Adjunctive role of orthodontic therapy

- 8.3.10 Special emphasis on precautions and treatment for medically compromised patients
- 8.3.11 Periodontal splints
- 8.3.12 Management of dentinal hypersensitivity
- 8.4 **Surgical therapy**
 - 8.4.1 Phase II Periodontal therapy
 - 8.4.2 Surgical anatomy of periodontium and related structures
 - 8.4.3 General principles of periodontal surgery.
 - 8.4.4 Conscious sedation
 - 8.4.5 Gingival surgical technique
 - 8.4.6 Periodontal flap
 - 8.4.7 Treatment of gingival enlargement
 - 8.4.8 Flap technique for Pocket therapy
 - 8.4.9 Root biomodification
 - 8.4.10 Resective osseous surgery
 - 8.4.11 Reconstructive Periodontal Surgery
 - 8.4.12 Furcation involvement and treatment
 - 8.4.13 Periodontal plastic and esthetic surgery
 - 8.4.14 Recent advances in surgical technology
 - Periodontal microsurgery
 - Lasers in periodontal therapy
 - Photodynamic therapy
 - Electrosurgery
 - Tissue Engineering
- 9. **Periodontal maintenance phase**
 - 9.1 Supportive periodontal treatment
- 10. **Interdisciplinary and supportive care**
 - 10.1 Inter relationship between Periodontics and Orthodontic therapy
 - 10.2 Inter relationship between Periodontics and Restorative therapy
 - 10.3 Inter relationship between Periodontics and Prosthodontic therapy
- 11. **Management of Medical emergencies in Periodontal practice**
- 12. **Oral Implantology**
 - 12.1 Introduction and historical review
 - 12.2 Rationale for implants
 - 12.3 Surgical and radiological anatomy
 - 12.4 Biologic, clinical and surgical aspects of dental implants
 - 12.5 Diagnosis and treatment planning
 - 12.6 Standard implant surgical procedures
 - 12.7 Advanced implant surgery and bone grafting techniques.
 - 12.8 Biomechanics and Prosthetic considerations
 - 12.9 Diagnosis and management of Implant related complications and failures
 - 12.10 Maintenance of dental implants