



6.	Localized and generalized gingivitis, Papillary, marginal and diffuse gingivitis	6
	<p>Etiology, pathogenesis, clinical signs, symptoms and management of</p> <ul style="list-style-type: none"> <li>i) Plaque associated gingivitis</li> <li>ii) Systemically aggravated gingivitis (sex hormones, drugs and systemic diseases)</li> <li>iii) ANUG</li> <li>iv) Desquamative gingivitis-Gingivitis associated with lichen planus, pemphigoid, pemphigus, and other vesiculobullous lesions</li> <li>v) Allergic gingivitis</li> <li>vi) Infective gingivitis-Herpetic, bacterial and candidial</li> <li>vii) Pericoronitis</li> <li>viii) Gingival enlargement (classification and differential diagnosis)</li> </ul>	
7	Epidemiology of periodontal diseases	2
	<ul style="list-style-type: none"> <li>- Definition of index, incidence, prevalence, epidemiology, endemic, epidemic, and pandemic</li> <li>- Classification of indices (Irreversible and reversible)</li> <li>- Deficiencies of earlier indices used in Periodontics</li> <li>- Detailed understanding of Silness &amp; Loe Plaque Index, Loe &amp; Silness Gingival Index, CPITN &amp; CPI.</li> <li>- Prevalence of periodontal diseases in India and other countries.</li> <li>- Public health significance (All these topics are covered at length under community dentistry. Hence, the topics may be discussed briefly. However, questions may be asked from the topics for examination)</li> </ul>	
8.	Extension of inflammation from gingiva	1
	<p>Mechanism of spread of inflammation from gingival area to deeper periodontal structures</p> <p>Factors that modify the spread</p>	
9.	Pocket	2
	<p>Definition, signs and symptoms, classification, pathogenesis, histopathology, root surface changes and contents of the pocket</p>	
10.	Etiology	5
	<ul style="list-style-type: none"> <li>- Dental Plaque (Biofilm)</li> <li>- Definition, New concept of biofilm</li> <li>- Types, composition, bacterial colonization, growth, maturation &amp; disclosing agents</li> <li>- Role of dental plaque in periodontal diseases</li> <li>- Plaque microorganisms in detail and bacteria associated with periodontal diseases</li> <li>- Plaque retentive factors</li> <li>- Materia alba</li> <li>- Food debris</li> <li>- Calculus</li> <li>- Definition</li> <li>- Types, composition, attachment, theories of formation</li> <li>- Role of calculus in disease</li> </ul> <p>Food Impaction</p> <ul style="list-style-type: none"> <li>- Definition</li> <li>- Types, Etiology</li> <li>- Hirschfelds' classification</li> <li>- Signs, symptoms &amp; sequelae of treatment</li> </ul> <p>Trauma from occlusion</p> <ul style="list-style-type: none"> <li>- Definition, Types</li> <li>- Histopathological changes</li> <li>- Role in periodontal disease</li> <li>- Measures of management in brief</li> </ul> <p>Habits</p> <ul style="list-style-type: none"> <li>- Their periodontal significance</li> <li>- Bruxism &amp; parafunctional habits, tongue thrusting, lip biting, occupational habits</li> </ul> <p>IATROGENIC FACTORS</p>	

	Conservative Dentistry	
	- Restorations	
	- Contact point, marginal ridge, surface roughness, overhanging restorations, interface between restoration and teeth	
	Prosthodontics	
	- Interrelationship	
	- Bridges and other prosthesis, pontics(types), surface contour, relationships of margins to the periodontium, Gingival protection theory, muscle action theory& theory of access to oral hygiene.	
	Orthodontics	
	- Interrelationship, removable appliances & fixed appliances	
	- Retention of plaque, bacterial changes	
	Systemic diseases	
	- Diabetes, sex hormones, nutrition(Vit.C & proteins)	
	- AIDS & periodontium	
	- Hemorrhagic diseases, Leukemia, clotting factor disorders, PMN disorders	
11.	Risk factors	Definition. Risk factors for periodontal diseases 1
12.	Host response	- Mechanism of initiation and progression of periodontal diseases 3
		- Basic concepts about cells, Mast cells, neutrophils, macrophages, lymphocytes, immunoglobulins, complement system, immune mechanisms & cytokines in brief
		- Stages in gingivitis-Initial, early, established & advanced
		- Periodontal disease activity, continuous paradigm, random burst & asynchronous multiple burst hypothesis
13.	Periodontitis	- Etiology ,histopathology, clinical signs & symptoms, diagnosis and treatment of adult periodontitis 6
		- Periodontal abscess; definition, classification, pathogenesis, differential diagnosis and treatment
		- Furcation involvement, Glickmans' classification, prognosis and management
		- Rapidly progressive periodontitis
		- Juvenile periodontitis: Localized and generalized
		- Post-juvenile periodontitis
		- Periodontitis associated with systemic diseases
		- Refractory periodontitis
14.	Diagnosis	- Routine procedures, methods of probing, types of probes,(According to case history) 2
		- Halitosis: Etiology and treatment. Mention advanced diagnostic aids and their role in brief.
15.	Prognosis	- Definition, types, purpose and factors to be taken into consideration 1
16.	Treatment plan	- Factors to be considered 1
17.	Periodontal therapy	A. General principles of periodontal therapy. Phase I,II, III, IV therapy. 3
		Definition of periodontal regeneration, repair, new attachment and reattachment.
		B. Plaque control
		i. Mechanical tooth brushes, interdental cleaning aids, dentifrices
		ii. Chemical; classification and mechanism of action of each & pocket irrigation
18.	Pocket eradication procedures	- Scaling and root planing: 5
		- Indications
		- Aims & objectives
		- Healing following root planning
		- Hand instruments, sonic, ultrasonic & piezo-electric scalers
		- Curettage & present concepts
		- Definition
		- Indications
		- Aims & objectives
		- Procedures & healing response
		- Flap surgery
		- Definition
		- Types of flaps, Design of flaps, papilla preservation

		- Indications & contraindications	
		- Armamentarium	
		- Surgical procedure & healing response	
9.	Osseous Surgery	Osseous defects in periodontal disease	2
		- Definition	
		- Classification	
		- Surgery: resective, additive osseous surgery (osseous grafts with classification of grafts)	
		- Healing responses	
		- Other regenerative procedures; root conditioning	
		- Guided tissue regeneration	
20.	Mucogingival surgery & periodontal plastic surgeries	Definition	3
		Mucogingival problems: etiology, classification of gingival recession (P.D. Miller Jr. and Sullivan and Atkins)	
		Indications & objectives	
		Gingival extension procedures: lateral pedicle graft, frenectomy, frenotomy	
		Crown lengthening procedures	
		Periodontal microsurgery in brief	
21.	Splints	- Periodontal splints	1
		- Purpose & classification	
		- Principles of splinting	
22.	Hypersensitivity	Causes, Theories & management	1
23.	Implants	Definition, types, scope & biomaterials used.	1
		Periodontal considerations: such as implant-bone interface, implant-gingiva interface, implant failure, peri-implantitis & management	
24.	Maintenance phase (SPT)	- Aims, objectives, and principles	1
		- Importance	
		- Procedures	
		- Maintenance of implants	
25.	Pharmaco-therapy	- Periodontal dressings	2
		- Antibiotics & anti-inflammatory drugs	
		- Local drug delivery systems	
26.	Periodontal management of medically compromised patients	Topics concerning periodontal management of medically compromised patients	1
27.	Inter-disciplinary care	- Pulpo-periodontal involvement	1
		- Routes of spread of infection	
		- Simons' classification	
		- Management	
28.	Systemic effects of periodontal diseases in brief	Cardiovascular diseases, Low birth weight babies etc.	1
29.	Infection control protocol	Sterilization and various aseptic procedures	1
30.	Ethics		

#### TUTORIALS DURING CLINICAL POSTING;

1. Infection control
2. Periodontal instruments
3. Chair position and principles of instrumentation
4. Maintenance of instruments (sharpening)
5. Ultrasonic, Piezoelectric and sonic scaling – demonstration of technique
6. Diagnosis of periodontal disease and determination of prognosis
7. Radiographic interpretation and lab investigations
8. Motivation of patients- oral hygiene instructions

Students should be able to record a detailed periodontal case history, determine diagnosis, prognosis and plan treatment. Student should perform scaling, root planning local drug delivery and SPT. Shall be given demonstration of all periodontal surgical procedures.

#### DEMONSTRATIONS:

1. History taking and clinical examination of the patients
2. Recording different indices
3. Methods of using various scaling and surgical instruments
4. Polishing the teeth
5. Bacterial smear taking
6. Demonstration to patients about different oral hygiene aids

7. Surgical procedures- gingivectomy, gingivoplasty, and flap operations
8. Follow up procedures, post operative care and supervision

**REQUIREMENTS:**

1. Diagnosis, treatment planning and discussion and total periodontal treatment – 25 cases
2. Dental scaling, oral hygiene instructions – 50 complete cases/ equivalent
3. Assistance in periodontal surgery – 5 cases
4. A work record should be maintained by all the students and should be submitted at the time of examination after due certification from the head of the department.

Students should have to complete the work prescribed by the concerned department from time to time and submit a certified record for evaluation.

**PRESCRIBED BOOK:**

1. Glickman's Clinical Periodontology — Carranza

**REFERENCE BOOKS**

1. Essentials of Periodontology and periodontics- Torquil MacPhee
2. Contemporary periodontics- Cohen
3. Periodontal therapy- Goldman
4. Orbans' periodontics- Orban
5. Oral Health Survey- W.H.O.
6. Preventive Periodontics- Young and Stiffler
7. Public Health Dentistry- Slack
8. Advanced Periodontal Disease- John Prichard
9. Preventive Dentistry- Forrest
10. Clinical Periodontology- Jan Lindhe
11. Periodontics- Baer & Morris.

