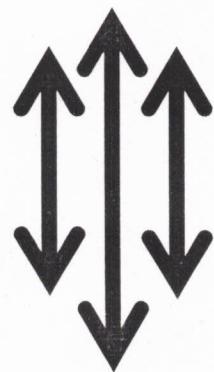


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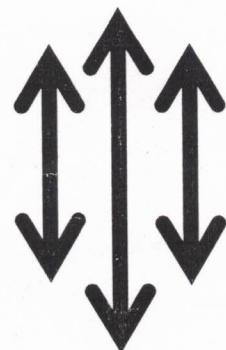
श्री भर्ना छनौट निर्देशनालय, कार्यरथी विभाग,

जंगी अड्डा



प्रा.उ.से. Dental Hygienist (खुल्ला) पदको लिखित

परीक्षाको पाठ्यक्रम



२०७९

नेपाली सेना

प्रा.उ.से. Dental Hygienist (खुल्ला) पदको लिखित परीक्षाको पाठ्यक्रम

समय: ४ घण्टा १५ मिनेट

पूर्णाङ्क: १५०

उत्तीर्णाङ्क: ६०

यो पाठ्यक्रम नेपाली सेनाको प्रा.उ.से.प्रा.उ.से. Dental Hygienist (खुल्ला) पदका उम्मेदवार छनौट परीक्षाको लागि निर्धारण गरिएको हो । लिखित परीक्षामा सरिक हुने उम्मेदवारहरूको पेशा सम्बन्धी विषयलाई आधारमानी प्रश्नहरू सोधिने छ ।

(क) लिखित परीक्षाको माध्यम नेपाली/अंग्रेजी वा दुवै भाषा हुनेछ ।

(ख) लिखित परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र अर्को चरणको परीक्षामा सम्मिलित गराईनेछ ।

(ग) प्रश्नपत्र निर्माण गर्दा पाठ्यक्रममा समावेश भएका सबै विषयहरूलाई यथासंभव समेटिनेछ ।

(घ) बस्तुगत र विषयगत संयुक्त रूपमा पूर्णाङ्क र उत्तीर्णाङ्क कायम गरिनेछ ।

(ङ) बस्तुगत र विषयगत परीक्षाको पाठ्यक्रम एउटै हुनेछ ।

(च) बस्तुगत र विषयगत विषयको लिखित परीक्षा एकैपटक वा छुट्टाछुट्टै गरी लिन सकिनेछ ।

(छ) यो पाठ्यक्रम मिति २०७९/९९ / १५ गतेबाट लागु हुनेछ ।

लिखित परीक्षाको योजना र पाठ्यक्रम

विषय	पूर्णाङ्क	उत्तीर्णाङ्क	परीक्षा प्रणाली		प्रश्न संख्या अङ्क	समय
पेशा सम्बन्धी	७५	६०	बस्तुगत (Objective)	बहु वैकल्पिक प्रश्न(MCQs)	७५ प्रश्नx १ अङ्क=७५	१ घण्टा १५ मिनेट
	७५		विषयगत (Subjective)	छोटो उत्तर  लामो उत्तर	९ प्रश्नx ५ अङ्क=४५  ३ प्रश्नx १० अङ्क=३०	३ घण्टा

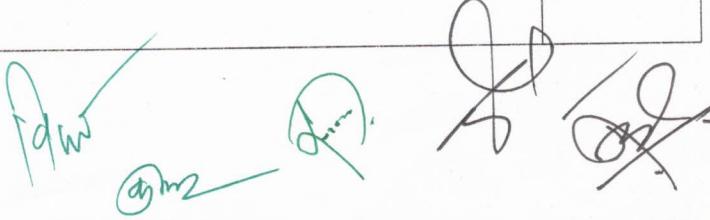
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नेपाली सेना

**प्रा.उ.से.Dental Hygienist (खुल्ला)**  
**पदको लिखित परीक्षाको पाठ्यक्रम**

S.No.	Topics	Marks	Remark
1	Oral Anatomy & Physiology	15	
2	Basic Periodontology	30	
3	Dental Materials, Instruments & Dental assisting	10	
4	Sterilization	15	
5	Oral Pathology & Microbiology	10	
6	Dental Radiography & Dental Photography	20	
7	Dental Public Health and Jurisprudence	20	
8	Prosthetics	5	
9	Types of Cavity and Restoration	10	
10	Minor Surgery	15	

**Unit – 1****Oral Anatomy & Physiology**

S.N.	Topic Content	Remark
1	1. Introduction Unit 1 : Definition and terminologies Define Anatomy, Histology, Otology, Embryology and physiology	
2	1. Explain anatomical terminologies: mesial, distal, buccal, labial, lingual, palatal, occlusal, missal, dorsal, ventral etc.  Sub unit 2: Skeleton System	
3	Maxilla 1. Describe structure and parts of maxilla 2. List the attachment to the maxilla 3. Describe position and relations of maxilla  Mandible 1. Explain structure and parts of mandible 2. List the attachment to the Mandible 3. Describe position and relations of mandible	
4	Sub unit 3: Muscular System 1. Review on facial muscles 2. Enumerate facial muscles 3. List the functions of facial muscles 4. Muscles of Mastication 5. Enumerate muscles of mastication 6. Describe origin, insertion and relation of muscles of mastication 7. Describe functions of muscles of mastication 8. Describe the role of buccinators & orbicularis oris	
5	Sub unit 4: Temporo-mandibular joint 1. Define T.M.J. 2. Describe movements of T.M.I.	

6	Sub unit 5: Oral cavity 1. Explain various parts of oral cavity 2. describe cheek, palate, floor of the mouth, vestibule, lips 3. Describe tongue, its structure and muscles of tongue 4. Describe taste buds and functions of tongue	
7	Sub unit 6: Alveolar bone 1. Describe alveolar bone 2. Explain properties and functions of alveolar bone	
8	Sub unit 7: Anatomy of tooth 1. List and describe the morphological parts of tooth 2. list the structural parts of tooth 3. Write down eruption and exfoliation sequence 4. Differentiate between deciduous and permanent dentition	
9	Sub unit 8: tooth numbering system 1. List the different tooth numbering system	
10	Sub unit 9: Salivary Gland 1. Parotid, sub mandibular and sublingual gland 2. Position of parotid gland 3. Position of sub mandibular gland 4. Position of sublingual gland	
11	Sub unit 10: Neurology 1. Enumerate cranial nerves and their functions 2. Describe course, branches and functions of trigeminal nerve 3. Explain course, branches and functions of facial nerve	
12	Sub unit 11: Skeleton system 1. Identify skeleton of the head and neck 2. Identify maxilla and mandible with their parts & attachment	
13	Sub unit 12: T.N.J 1. Locate T.M.J. 2. Demonstrate movements of T.M.J.	
14	Sub unit 13: Oral cavity 1. Identify parts of oral cavity 2. Identify taste buds.	
15	Sub unit 14: Growth & development of tooth	
16	Sub unit 15: Anatomy of tooth 1. Identify parts of tooth 2. Differentiate each tooth, deciduous and permanent 3. Draw diagrams of human dentition	

**BASIC PERIODONTOLOGY 1**

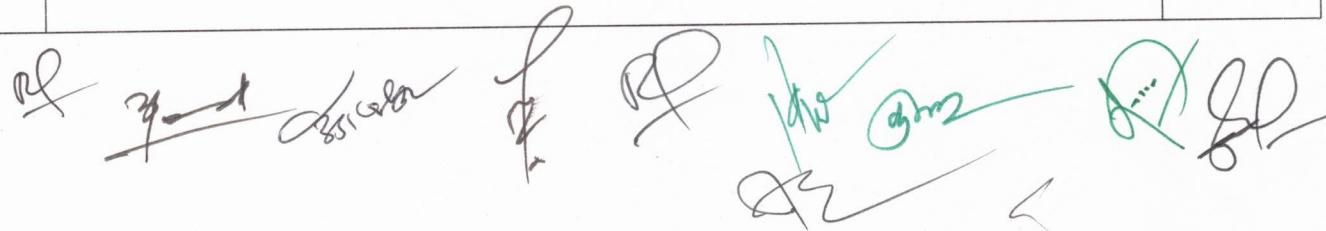
S.N.	Topic Content	
1	Unit 1: Introduction: Define periodontology/Periodontics	
2	Unit 2: Normal Periodontium	
3	Sub Unit 1: Gingiva 1. Define gingival 2. Describe normal clinical features of gingival	

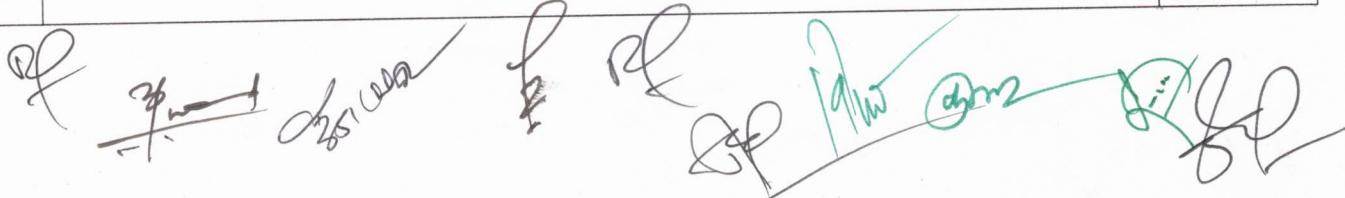
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### BASIC PERIODONTOLOGY II

S.N.	Topic Content	Remark
1	Sub Unit 1: Gingival inflammation. <ol style="list-style-type: none"> <li>1. Describe gingival Inflammation</li> <li>2. Describe various stages of gingival inflammation</li> <li>3. Describe gingivitis</li> <li>4. Describe course, duration and distribution of gingivitis</li> <li>5. Describe clinical features of gingivitis</li> </ol>	
2	Sub Unit 2: Gingival Enlargement. <ol style="list-style-type: none"> <li>1. Describe and classify gingival enlargement</li> <li>2. Describe location and distribution of gingival enlargement</li> <li>3. Describe types of gingival enlargement</li> <li>4. Describe gingival enlargements associate with systemic diseases</li> <li>5. Describe neoplastic gingival enlargement</li> </ol>	
3	Sub Unit 3: Gingival lesions. <ol style="list-style-type: none"> <li>1. Describe acute necrotizing ulcerative gingivitis?</li> <li>2. Describe acute herpetic gingivostomatitis</li> <li>3. Describe pericoronitis</li> <li>4. Describe chronic desquamative gingivitis ?</li> </ol>	
4	Sub Unit 4: Periodontitis. <ol style="list-style-type: none"> <li>1. Describe &amp; classify periodontitis</li> <li>2. Describe progression of periodontitis</li> <li>3. Describe slowly progressive periodontitis</li> <li>4. Describe rapidly progressive periodontitis</li> <li>5. Describe necrotizing ulcerative periodontitis</li> <li>6. Describe prepubertal and juvenile periodontitis</li> <li>7. Describe adult periodontitis</li> <li>8. Describe refractory periodontitis</li> </ol>	
5	Sub Unit 5: Periodontitis pocket <ol style="list-style-type: none"> <li>1. Define periodontal pocket</li> <li>2. Classify periodontal pocket</li> <li>3. Describe clinical features</li> <li>4. Describe pathogenesis and histopathology</li> <li>5. Describe micro topography of gingival wall of the pocket</li> <li>6. Describe pocket contents</li> <li>7. Describe periodontal disease activity</li> <li>8. Describe loss of attachment and bone loss</li> <li>9. Differentiate between infrabony and suprabony pocket</li> <li>10. Discuss sequelae of periodontal pocket</li> </ol>	
6	Sub Unit 6: periodontal abscess and cyst. <ol style="list-style-type: none"> <li>1. Explain periodontal abscess</li> <li>2. Explain periodontal cyst</li> </ol>	


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	Sub Unit 7: Bone loss and pattern of bone destruction <ol style="list-style-type: none"> <li>1. Explain bone destruction caused by extension of gingival inflammation</li> <li>2. Explain bone destruction caused by TFO</li> <li>3. Explain bone destruction caused by systemic diseases</li> <li>4. Explain bone destruction patterns in periodontal disease</li> <li>5. Describe gingival recession</li> <li>6. Describe fraction involvement</li> <li>7. Describe tooth mobility</li> </ol>	
7	Sub Unit 8: Periodontal response to external forces <ol style="list-style-type: none"> <li>1. Discuss physiologic adaptive capacity of the periodontium to occlusal forces</li> <li>2. Discuss case history taking</li> <li>3. Perform clinical examination</li> <li>4. Describe method of probing</li> <li>5. Describe types of probes</li> <li>6. Discuss routine investigative methods</li> <li>7. Describe advanced diagnostic aids and their role in brief</li> </ol>	
8	Sub Unit 11: Prognosis <ol style="list-style-type: none"> <li>1. Define prognosis in periodontics</li> <li>2. Describe types of prognosis</li> <li>3. Describe purpose and factors to be taken into consideration in individual and overall prognosis</li> </ol>	
9	Sub Unit 12: Treatment <ol style="list-style-type: none"> <li>1. Describe rationale of various phases in treatment planning of periodontal disease</li> <li>2. Define scaling and root planning</li> <li>3. Discuss aims and objective of scaling and root planning</li> <li>4. Discuss indications and contraindications of scaling and root planning</li> <li>5. Discuss complications of improper scaling</li> <li>6. Pre-form topical fluoride application</li> <li>7. Follow up</li> <li>8. Preform tooth polishing</li> <li>9. Referral</li> </ol>	
10	Sub Unit 13: Periodontal ligament. <ol style="list-style-type: none"> <li>1. Define periodontal ligament</li> <li>2. Discuss role of dental plaque in periodontal disease</li> </ol>	
11	Sub Unit 15: Dental calculus <ol style="list-style-type: none"> <li>1. Define and classify dental calculus</li> <li>2. Describe composition of dental calculus</li> <li>3. Describe mechanism of formation of dental calculus</li> <li>4. Describe mechanism of attachment of calculus to tooth surface</li> <li>5. Explain theories regarding the mineralization of calculus</li> <li>6. Etiologic significance of dental calculus</li> </ol>	
12		

13	Sub Unit 16: Role of local factors <ol style="list-style-type: none"> <li>1. Describe role of unrestored missing teeth</li> <li>2. Describe role of mouth breathing</li> <li>3. Describe role of tongue thrusting</li> <li>4. Describe effect of bruxism</li> <li>5. Describe effect of tooth brush trauma</li> <li>6. Describe effect of chemical irritation</li> <li>7. Describe effect of radiation</li> </ol>	
14	Sub Unit 17: Plaque control <ol style="list-style-type: none"> <li>1. Discuss importance of oral hygiene and its effect on general health</li> <li>2. Discuss plaque control measures and its significance</li> <li>3. Classify plaque control methods</li> <li>4. Explain personal oral hygiene methods</li> <li>5. Discuss importance of patient education on plaque control</li> <li>6. Describe the use of disclosing agents</li> </ol>	
15	Sub Unit 18: Gingiva <ol style="list-style-type: none"> <li>1. Describe gingiva and gingival muscles</li> <li>2. Explain structure and type of gingiva</li> <li>3. Explain Clinical feature of gingiva</li> </ol>	
16	Sub Unit 19: Periodontal ligament <ol style="list-style-type: none"> <li>1. Describe periodontal ligament</li> <li>2. Enumerate fiber of periodontal ligament</li> <li>3. Explain functions of periodontal ligament</li> </ol>	

### Unit – 3 Dental Materials, Instruments & Dental Assisting

S.N.	Topic Content	Remark
1	Unit 1: introduction & biological consideration of dental materials <ol style="list-style-type: none"> <li>1. Describe and enlist commonly used dental materials</li> <li>2. Discuss requirement of shelf life and storage of dental materials</li> </ol>	
2	Sub unit 1: Gypsum Products <ol style="list-style-type: none"> <li>1. Classify gypsum products and its application in dentistry</li> <li>2. Describe properties of gypsum products</li> <li>3. Explain manipulation process of gypsum products</li> <li>4. Calculate recommended water power ration</li> </ol>	
3	Sub Unit 2: Cementum <ol style="list-style-type: none"> <li>1. Describe cementum</li> <li>2. Enumerate types and functions of cementum</li> <li>3. Explain process of disinfection of gypsum materials</li> </ol>	
4	Sub unit 3: Composite resins <ol style="list-style-type: none"> <li>1. Describe composite resins</li> <li>2. Enlist and explain types of composite resins</li> <li>3. Manipulation process of composite resins</li> </ol> <p>Explain the process of eye protection during light curing</p>	

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5	<p>Sub unit 4: Dental Amalgam</p> <ol style="list-style-type: none"> <li>1. Describe dental amalgam</li> <li>2. Classify amalgam</li> <li>3. Describe composition of dental amalgam</li> <li>4. Explain manipulation process of amalgam</li> <li>5. Explain mercury hazard and wastage disposal methods of dental amalgam</li> </ol>	
6	<p>Sub unit 5: Dental cements</p> <p>Sub unit 1: zinc oxide -eugenol</p> <ol style="list-style-type: none"> <li>1. Describe Oxide-eugenol cement</li> <li>2. Describe composition of zinc oxide-eugenol cement</li> <li>3. Explain manipulation process of zinc oxide-eugenol cement</li> </ol>	
7	<p>Sub unit 6: zinc phosphate</p> <ol style="list-style-type: none"> <li>1. Describe zinc phosphate cement</li> <li>2. describe composition of zinc phosphate</li> <li>3. explain manipulation process of zinc phosphate</li> </ol>	
8	<p>Sub unit 7: Glass ionomer</p> <ol style="list-style-type: none"> <li>1. Describe glass ionomer cement</li> <li>2. Classify glass ionomer cement</li> <li>3. Describe composition of glass ionomer cement</li> <li>4. Explain manipulation process of glass ionomer cement</li> </ol>	
9	<p>Sub unit 8: Calcium hydroxide</p> <ol style="list-style-type: none"> <li>1. Describe calcium hydroxide cement</li> <li>2. Describe types of calcium hydroxide cement</li> <li>3. Describe composition of calcium hydroxide cement</li> <li>4. Manipulation process of calcium hydroxide cement</li> </ol>	
10	<p>Sub unit 9: Dental waxes</p> <ol style="list-style-type: none"> <li>1. Describe dental waxes</li> <li>2. Enlist &amp; explain types of dental waxes. Explain manipulation process of modeling wax</li> </ol>	
11	<p>Sub unit 10: Dental Instruments</p> <p>Identification of instruments</p> <ol style="list-style-type: none"> <li>1. Describe and classify dental instruments</li> <li>2. Discuss the identification of common diagnostic, restorative, endodontic, prosthodontic, orthodontic and oral surgery instruments.</li> </ol>	
12	<p>Sub unit 11: Dental assisting</p> <p>A. Dental Chair</p> <ol style="list-style-type: none"> <li>1. Enlist and identify various parts of dental chair and their functions</li> <li>2. Demonstrate the operation of dental chair units into various positions</li> </ol>	
13	<p>B. Chair-side assisting</p> <ol style="list-style-type: none"> <li>1. Demonstrate various positions of the operator and the assistant</li> <li>2. Describe various steps of patient preparation before operative procedure</li> <li>3. Describe patient preparation in special situations including the case of child patient, handicapped patient, apprehensive patient, medically compromised patient, pregnant patient etc.</li> <li>4. Describe role of dental assisting in special situations including medical emergencies</li> <li>5. Describe role of dental assisting in special situation like choking or aspiration of instruments/materials by the patient</li> <li>6. Describe post treatment instruction after various dental procedures.</li> </ol>	

14	C. Saliva control and isolation 1. Enlist different methods of saliva control & isolation 2. Describe use of suction machine for saliva control 3. Describe application of rubber dam for isolation of tooth 4. Prepare cotton roles for saliva control	
15	Sub unit 12: Maintenance of dental equipment and instruments A. Cleaning 1. Demonstrate cleaning of dental chair 2. Demonstrate cleaning of dental equipment including suction apparatus, amalgamator, machine, autoclave, light cure machine, compressor etc. 3. Describe disinfection of water pipe, hand piece chord, drainage system of dental chair unit	
16	B. Maintenance and servicing of dental equipment 1. Describe air servicing of dental chair unit 2. Demonstrate oiling/lubrication of dental chair unit and compressor 3. Demonstrate oiling and storage of hand piece unit 4. Demonstrate changing of cartridge of hand piece unit 5. Demonstrate changing of bulb and cleaning of illumination panel 6. Demonstrate changing of fuse wire of various electrical dental appliance	
17	Sub unit 1: Dental waste disposal 1. Define waste disposal 2. Discuss the types of biological waste products in the dental operatory 3. Explain mercury waste in the dental operatory 4. Discuss the process of various biological and physical waste	

#### Unit 4: Sterilization

S.N.	Topic Content	Remark
1	Sub unit 1: Infection Control 1. Define infection control 2. Enumerate and explain various levels of infection control 3. Define sterilization 4. Define disinfection 5. Describe antiseptic and asepsis with example	

#### Unit 5: Oral Pathology & Microbiology

S.N.	Topic Content	Remark
1	Sterilization of dental instrument 1. Define sterilization 2. Enlist different methods of sterilization 3. Describe the process of sterilization and disinfection of various dental instruments 4. Describe sterilization dental hand piece and instruments	



2	Unit 1: Oral Pathology 1. Define pathology 2. Write down concept of disease	
3	Sub Unit 2: Inflammation 1. Describe cause and types of inflammation 2. Describe clinical features of inflammation 3. Enumerate and explain cardinal signs of inflammation	
4	Sub unit 3: Abscess 1. Define Abscess 2. Explain cause of abscess 3. Enumerate and explain types of abscess 4. Describe clinical features of abscess 5. Describe alveolar abscess 6. Describe periodontal abscess	
5	Sub unit 4: Space infection 1. Define space and enumerate spaces of oral-facial region 2. Describe cellulites 3. Enumerate common dental space infections 4. Explain ludwig's angina	
6	Sub unit 5: Cysts 1. Define cyst 2. Classify and enumerate common cystic lesions of the oral cavity 3. Describe odontogenic cysts	
7	Sub unit 6: Tumors 1. Define tumor 2. Differentiate benign and malignant tumors	
8	Sub unit 7: Developmental anomalies 1. Explain development anomalies of tooth 2. Explain development anomalies of oral structures 3. Describe and classify cleft lip and palate 4. Describe incidence and cause cleft lip and palate	
9	Sub unit 8: Regressive alteration to tooth 1. Define Attrition 2. Describe causes & clinical feature of attrition 3. Define Abrasion 4. Describe cause & clinical feature of abrasion 5. Define Erosion 6. Explain causes & clinical feature of erosion	
10	Sub unit 9: Dental Caries 1. Define dental caries 2. Explain etiology and clinical feature of dental caries 3. Describe squeal of dental caries 4. Describe prevention of dental caries	
11	Sub unit 10: diseases of pulp and per apical tissues 1. Classify diseases of pulp 2. Describe etiology, clinical features and squeal of pulp 3. Describe etiology, clinical features and squeal of per apical tissues	

PL 3/2024 Dated by Dr. S. K. Joshi  
 Amrit Patel  
 Dr. S. K. Joshi

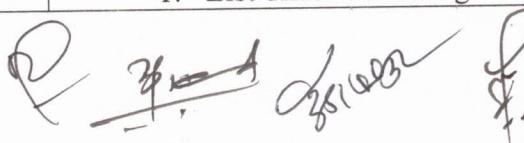
12	Sub unit 12: Systemic diseases and their oral manifestations 1. Discuss oral manifestations of diabetes mellitus 2. Discuss oral manifestations of leukemia, anemia 3. Discuss oral manifestations of syphilis, tuberculosis, AIDS etc.	
13	Sub unit 3: Universal precaution 1. Define universal precaution 2. Describe procedures followed in universal precaution	
14	Sub unit 4: Hand scrubbing 1. Explain process of hand scrubbing in operatory with their significance	
15	Sub unit 5: Self protection 1. Describe self protection in operatory 2. Explain process of wearing face mask, gloves and gowns with their clinical significance	
16	Sub unit 6: Decontamination 1. Explain process of decontamination of gloves, linens and surgical drapes 2. Decontaminate process of decontamination of dental equipment and instruments including dental chair, hand piece, suction apparatus, X-ray films etc.	
17	Unit 7: Clinical waste management 1. Explain clinical waste 2. List and explain the types of waste management 3. Discuss clinical wastes of dental operatory 4. Explain procedure of waste management of dental operatory 5. Explain dental amalgam waste management	

### 1.3 Basic Dental Pharmacology

S.N.	Topic Content	Remark
1	Unit 1: Definition & Routes of drug administration Sub unit 1: Dental pharmacology & drugs administration 1. Define pharmacology & drugs 2. List different routes of administration with their advantage and disadvantages. 3. Discuss in brief about pharmacy dynamics and pharmacy kinetics of drugs.	
2	Sub unit 2: Local drug Delivery 1. Define plaque and anti plaque 2. List different Anti plaque agent 3. List properties & uses of anti plaque agents 4. Describe in detail about Chlohexidine gluconate as anti-plaque agent including chew of action, user & side effect & drug dosage. 5. List different analgesic and anti microbial that can be used locally	
3	Dentifrices, Mouth wash, Obtundents, Anti caries, Astringents & Anesthetic agents (in brie)	

*RJ 2020* *gms raw* *JL*

	Dentifrices <ol style="list-style-type: none"> <li>Define dentifrices.</li> <li>List properties and types of dentifrices.</li> <li>Describe functions of dentifrices.</li> <li>List the composition/ingredients with their function</li> </ol>	
4	Mouth wash <ol style="list-style-type: none"> <li>Define mouth wash</li> <li>List the use of mouth wash.</li> </ol>	
5	Hypersensitivity of teeth <ol style="list-style-type: none"> <li>Define hypersensitivity of teeth</li> <li>Describe causes of hypersensitivity of teeth</li> <li>Explain theories on hypersensitivity of teeth</li> <li>Describe treatment and precautions for sensitive teeth</li> <li>Explain post-scaling hypersensitivity and its remedy</li> <li>Describe medicated dentifrices and their mechanisms of action</li> <li>Describe iontophoresis</li> </ol>	
6	Pharmacy-therapy <ol style="list-style-type: none"> <li>Discuss local drug delivery system in periodontal therapy</li> <li>Discuss various topical pharmacological agents use in periodontal therapy</li> <li>Describe periodontal dressings</li> </ol>	
7	Patient management <ol style="list-style-type: none"> <li>Discuss education, motivation, and oral hygiene instruction to the patient</li> <li>Discuss pain and anxiety control</li> <li>Discuss post-operative instructions</li> <li>Discuss periodontal treatment of medically compromised patient</li> <li>Discuss periodontal treatment for highly sensitive patient</li> </ol> Discuss dental hygiene	
8	Infection control <ol style="list-style-type: none"> <li>Describe personal aseptic measures taken by the dental hygiene</li> <li>Describe various sterilization and aseptic procedures in dental operatory</li> <li>Describe possible cross infections during dental procedures</li> </ol>	
9	Obtundents <ol style="list-style-type: none"> <li>Define Obtundents</li> <li>List the uses of obtundent</li> </ol>	
10	Anti caries agent <ol style="list-style-type: none"> <li>Define anti caries agent</li> <li>Classify the anti caries agent</li> <li>Describe mode of action on the prevention of caries.</li> <li>Describe mode of action on the prevention of caries</li> <li>Give brief over view on fluoride as antiquaries agent including source, fluoride vehicle, tropical system fluoridation &amp; fluoride toxicity</li> </ol>	
11	Astringents & Tropical Anesthetic Agents. (in Brief) <ol style="list-style-type: none"> <li>List different astringents &amp; tropical anesthetic agent.</li> </ol>	





12	Drugs use in dentistry (Analgesics and Antimicrobials) Sub Unit 1: Non opioid Non-narcotic/ and opioid analgesic	
	Classify analgesics Drugs List differences between non opinion (Non-narcotic)/and opioid analgesic	
13	Discuss in short about the groups of drugs under non opioid analgesic including mechanism action, uses and adverse reaction. Discuss in short about the groups of drugs under opioid analgesic including mechanism of acted uses and adverse reaction.	

### Unit 6. Dental Radiography & Dental Photography

S.N.	Topic Content	Remark
1	Sub unit 1: IOPA X-ray taking procedure <ol style="list-style-type: none"> <li>Describe various position of X-ray Tube (cone) during IOP X-ray taking</li> <li>Explain the relation between &gt;-ray cone and film distance and film holding methods</li> <li>Discuss the X-Ray taking methods of upper centrals &amp; Laterals incisors.</li> <li>Discuss the X-ray taking methods of upper canines</li> <li>Discuss the X-ray taking methods of upper premolars</li> <li>Discuss the X-ray taking methods of upper molars</li> <li>Discuss the X-ray taking methods of upper III Molars</li> <li>Discuss the X-ray taking methods of Lower centrals &amp; laterals</li> <li>Discuss the X-ray taking methods of Lower canines</li> <li>Discuss the X-ray taking methods of Lower Premolars</li> <li>Discuss the X-ray taking methods of Lower Molars</li> <li>Discuss the X-ray taking methods of Lower III Molars</li> <li>Discuss and Explain Extra oral Radiographic Techniques</li> </ol>	
2	Sub unit 2: Photographic Technique in Dentistry <ol style="list-style-type: none"> <li>Describe difference between intra oral and extra oral technique</li> <li>Describe basic steps of intra oral photographic technique of               <ol style="list-style-type: none"> <li>Frontal view</li> <li>Right buckle view</li> <li>Left Buccal view</li> <li>Maxillary Occlusal</li> <li>Mandibular Occlusal</li> </ol> </li> <li>Describe basic steps of extra oral photographic technique of               <ol style="list-style-type: none"> <li>Full face view</li> <li>Profile view</li> </ol> </li> </ol> <p>Describe the care and maintenance technique of dental photographic equipment</p>	

## Unit 7. Dental Public Health

S.N.	Topic Content	Remark
1	Unit 7 Dental Public health Sub unit : I Introduction <ol style="list-style-type: none"> <li>1. Define public health and dental public health</li> <li>2. List The principles followed in dental public health practice</li> <li>3. List the forms of dental health services</li> <li>4. Briefly discuss characteristic Public Health Techniques</li> <li>5. List and Discuss the Tools of Dental Public Health</li> <li>6. Differentiate between community Health Work and private practice</li> </ol>	
2	Sub unit: 2 Dental Epidemiology <ol style="list-style-type: none"> <li>1. Define epidemiology and describe dental epidemiology</li> <li>2. List and discuss the scientific methods and tools in dental epidemiology</li> </ol>	
3	Sub Unit: 3 Etiology & Prevention of dental caries <ol style="list-style-type: none"> <li>1. Define prevention of dental caries</li> <li>2. Enlist and discuss the etiologic factors of dental caries</li> <li>3. Describe the role of diet in dental carries</li> <li>4. Briefly describe the caries process</li> <li>5. List and briefly discuss mechanical measures of carries control</li> <li>6. List and briefly discuss levels of prevention of dental caries.</li> </ol>	
4	Sub unit 4 Fluorides in preventive Dentistry <ol style="list-style-type: none"> <li>1. Describe Fluoride</li> <li>2. Briefly discuss the sources of Fluoride for adults and children</li> <li>3. Discuss the metabolism of fluoride</li> <li>4. Describe the mechanism of action of fluorides in caries reduction</li> <li>5. List the fluoride delivery methods</li> <li>6. List the briefly discuss the topical fluorides used in preventive dentistry</li> <li>7. List the Fluoride vehicles</li> <li>8. Describe the modes of action of fluoride</li> <li>9. Briefly discuss toxicity of fluoride</li> <li>10. Briefly discuss community water fluoridation and school water fluoridation</li> </ol>	
5	Sub Unit 5: Epidemiology, Etiology & Prevention of Periodontal Diseases <p>List and briefly discuss the Etiology of periodontal diseases</p> <p>List and briefly discuss the risk factors in periodontal disease</p> <p>Describe the prevention of periodontal diseases</p>	
6	Sub unit 6: Epidemiology, Etiology & Prevention of Oral cancer Introduction to Oral cancer <p>Discuss the prevalence and incidence of Oral cancers</p> <p>List and briefly discuss the Etiology of Oral cancers</p> <p>Discuss the prevention and control of oral cancer</p> <p>Discuss the effect of tobacco, smoking, and betel nut on oral health and in oral cancer</p>	



7	Sub Unit 7: HIV Infection, AIDS and Oral Health 1. Define HIV, its pathogenesis and Epidemiology 2. Discuss the oral manifestation of HIV 3. Briefly discuss the prevention measures	
8	Sub unit 8: Indices use in dental Epidemiology 1. Define indices 2. List and discuss the indices used in oral hygiene assessment, gingival diseases, periodontal disease, dental caries and treatment needs	
9	Sub unit: 9 Behavior and its management in public health dentistry 1. List and discuss the factors influencing preventive behavior 2. List the behavioral characteristics of a normal child 3. List the categorical rating of behavioral patterns 4. Discuss how behavior management can be achieved in public health dentistry	
10	Sub unit 10: School Dental Health programs 1. Describe a school dental health program 2. List and briefly discuss the aspects of school health services 3. List and discuss the important elements of school dental health program 4. Define Incremental and Comprehensive dental care	
11	Sub unit 11: Survey Procedures 1. Define survey and list its types 2. Define basic oral health survey and pathfinder survey	
12	Sub unit 12: Dental Manpower and Dental Auxiliary Personnel 1. Define dentist, dental specialist 2. Define dental auxiliary and briefly discuss its classification	
13	Sub Unit 13: Occupational Hazards and infection control in dentistry 1. Define Immunity 2. List the factors affecting disease 3. Enumerate the transmissible infections in Dentistry	

**Unit 8: Prosthetics:**

1	Sub unit -1: Impression trays, materials 1. Define impression material 2. Classify impression materials 3. Describe desirable properties of impression materials 4. Describe process of disinfection of impression materials 5. Describe the process of transfer of impression materials 6. Describe the process of storage of impression materials 7. Describe and classify impression trays 8. Identify various types of impression trays 9. Discuss the methods of sterilization of impression trays	
2	Sub unit 2: Impression compound 1. Define impression compound 2. Describe ideal requirements of impression compound 3. explain manipulation process of impression compound	

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3	<p>Sub unit 3: Alginate</p> <ol style="list-style-type: none"> <li>1. List and explain types of alginate</li> <li>2. Explain manipulation process of alginate</li> <li>3. Explain the process of loading alginate in the impression trays</li> <li>4. Describe the storage of alginate</li> </ol>	
4	<p>Sub unit 4: Procedure Sub unit 5: Partial Denture, Complete denture</p> <ol style="list-style-type: none"> <li>1. Enumerate and classify elastomeric impression materials</li> <li>2. Describe silicon based impression material and its manipulation</li> <li>3. Describe agar impression material and its manipulation</li> </ol> <p>Describe storage of elastomeric impression materials</p>	
5	<p>Sub unit 6: Dental models cast and die materials</p> <ol style="list-style-type: none"> <li>1. Describe dental models, cast &amp; die materials</li> <li>2. Enlist different dental materials use for making model, cast &amp; die</li> <li>3. Discuss manipulation process of dental plaster, dental stone and die stone</li> <li>4. Describe laboratory process of pouring of cast</li> <li>5. Describe laboratory process of base forming of cast</li> </ol>	

**Unit: 9 Types of Cavity & Restoration**

S.N.	Topic Content	
1	Unit: 9 Types of cavity & Restoration	

**Unit: 10 : Minor Surgery**

S.N.	Topic Content	
1	Sub unit 1 : Extraction Sub unit 2: Operculectomy Sub unit 3: Apicoectomy	



The page contains several handwritten signatures and initials in black and green ink. The signatures appear to be in cursive script, likely belonging to students or faculty members. One large green signature is prominent in the center-right area, while smaller black signatures are scattered across the bottom half of the page.

माथि उल्लेखित पाठ्यक्रमका एकाइहरुबाट सोधिने प्रश्नहरुको संख्या निम्नानुसार हुनेछ

SECTION	MCQS	LONG ANSWER QUESTIONS	SHORT ANSWER QUESTIONS
Oral Anatomy & Physiology	10x1	-	1x5
Basic Periodontology	15x1	1x10	1x5
Dental Materials, Instruments & Dental assisting	5x1	-	1x5
Sterilization	10x1	-	1x5
Oral Pathology & Microbiology	5x1	-	1x5
Dental Radiography & Dental Photography	10x1	1x10	-
Dental Public Health and Jurisprudence	10x1	1x10	-
Prosthetics	-	-	1x5
Types of Cavity and Restoration	5x1	-	1x5
Minor Surgery	5x1	-	2x5
DISTRIBUTION	75questions x 1 marks each	3 questions x 10 marks each	9 questions x 5marks each
TOTAL	75 MARKS	30MARKS	45 MARKS

### प्रयोगात्मक परिक्षाको पाठ्यक्रम

समय: ६० मिनेट

पूर्णाङ्क: ५०

उत्तीर्णाङ्क: २५

S.N.	Topic Content	Full Mark	Remark
1	History taking	10	
2	Clinical/ Laboratory / Radiology / Assisting Procedure	20	
3	Spotters	10	
4	Viva	10	
<b>Total</b>		<b>50</b>	

समाप्त  
@ ००२