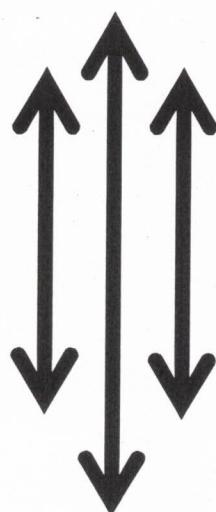
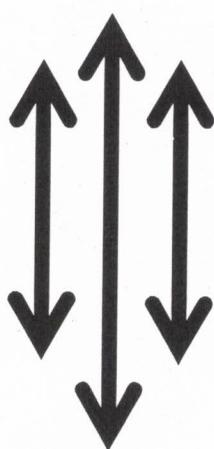


नेपाली सेना  
श्री भर्ना छनौट निर्देशनालय कार्यरथी विभाग  
जंगी अड्डा



प्रा.उ.से. मेडिकल/डेण्टल टेक्निसियन (खुल्ला तथा आन्तरिक) पदको  
लिखित परीक्षाको पाठ्यक्रम



२०७८

प्रा.उ.से. मेडिकल/डेण्टल टेक्निसियन (खुला तथा आन्तरिक) पदको लिखित  
परीक्षाको पाठ्यक्रम

समय: ४ घण्टा १५ मिनेट

पुर्णाङ्क: १५०

उत्तीर्णाङ्क: ६०

यो पाठ्यक्रम नेपाली सेनाको प्रा.उ.से. मेडिक/टेण्टल टेक्निसियन (खुला तथा आन्तरिक) पदका उम्मेदवार छनौट परीक्षाको लागि निर्धारण गरिएको हो । लिखित परीक्षामा सरिक हुने उम्मेदवारहरूको पेशा सम्बन्धि 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 गराईने छ ।
- (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 २०७८/०५/११ गतेबाट लागु हुनेछ ।

लिखित परीक्षाको योजना र पाठ्यक्रम

विषय	पुर्णाङ्क	उत्तीर्णाङ्क	परीक्षा प्रणाली		प्रश्न संख्या $\times$ अंक	समय
पेशा सम्बन्धी	७५	६०	वस्तुगत (Objective)	बहुवैकल्पिक प्रश्न (MCQs)	७५ प्रश्न $\times$ १ अंक = ७५	१ घण्टा १५ मिनेट
	७५		विषयगत (Subjective)	छोटो उत्तर लामो उत्तर	७ प्रश्न $\times$ ५ अंक = ३५ ४ प्रश्न $\times$ १० अंक = ४०	३ घण्टा

लिखित परीक्षाको पाठ्यक्रम

UNIT- 1

**ORAL ANATOMY AND PHYSIOLOGY**

<b>Subunits</b>	<b>Topic Content</b>	<b>Hour</b>
1.	Introduction Definition and terminologies Define Anatomy, Histology, Embryology and physiology	
2.	Explain anatomical terminologies: mesial, distal, buccal, labial, lingual, palatal, occlusal, dorsal, ventral etc.	
3.	Skeletal System Maxilla and mandible 1. Describe structure and parts of maxilla and mandible	
4.	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.	Temporomandibular joint 1. Define T.M.J. 2. Describe movements of T.M.J. 3. Demonstrate movements of T.M.J.	
6.	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.	Alveolar bone 1. Describe alveolar bone 2. Explain properties and functions of alveolar bone	
8.	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.	Tooth numbering system 1. List the different tooth numbering system and explain	
10.	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	

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11.	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.	Skeleton system 1. Identify skeleton of the head and neck 2. Identify maxilla and mandible with their parts & attachment	
13.	Oral cavity 1. Identify parts of oral cavity 2. Identify taste buds.	
14.	Growth & development of tooth	
15.	Anatomy of tooth 1. Identify parts of tooth 2. Differentiate each tooth, deciduous and permanent 3. Draw diagrams of human dentition	

**Unit 2**  
**BASIC PERIODONTOLOGY I**

Subunits	Topic Content	Hour
1	Introduction: Define periodontology/Periodontics Normal Periodontium	
2	Gingiva 1. Define gingiva 2. Describe normal clinical features of gingiva	
3	Periodontal ligament. 1. Define periodontal ligament 2. Enumerate fiber of periodontal ligament 3. Explain functions of periodontal ligament	

**BASIC PERIODONTOLOGY II**

Subunits	Topic Content	Hour
1.	Gingival inflammation. 1. Describe gingival Inflammation 2. Describe various stages of gingival inflammation 3. Describe gingivitis 4. Describe course, duration and distribution of gingivitis 5. Describe clinical features of gingivitis	
2.	Gingival Enlargement. 1. Describe and classify gingival enlargement 2. Describe location and distribution of gingival enlargement 3. Describe types of gingival enlargement 4. Describe gingival enlargements associate with systemic diseases 5. Describe neoplastic gingival enlargement	
3.	Gingival lesions. 1. Describe acute herpetic gingivostomatitis 2. Describe pericoronitis	
1.	Periodontitis. 1. Describe & classify periodontitis 2. Describe progression of periodontitis 3. Describe slowly progressive periodontitis 4. Describe rapidly progressive periodontitis	

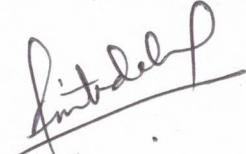
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	<ul style="list-style-type: none"> <li>5. Describe necrotizing ulcerative periodontitis</li> <li>6. Describe prepubertal and juvenile periodontitis</li> <li>7. Describe adult periodontitis</li> <li>8. Describe refractory periodontitis</li> </ul>	
2.	<p>Periodontal pocket</p> <ul 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><b>10. Discuss sequelae of periodontal pocket</b></li> </ul>	
3.	<p>Periodontal abscess and cyst.</p> <ul style="list-style-type: none"> <li>1. Explain periodontal abscess</li> <li>2. Explain periodontal cyst</li> </ul>	
4.	<p>Prognosis</p> <ul style="list-style-type: none"> <li>1. Define prognosis in periodontics</li> <li>2. Describe types of prognosis</li> </ul>	
5.	<p>Treatment</p> <ul style="list-style-type: none"> <li>1. Define scaling and root planing</li> <li>2. Discuss aims and objective of scaling and root planning</li> <li>3. Discuss indications and contraindications of scaling and root planning</li> <li>4. Discuss complications of improper scaling</li> <li>5. Pre-form topical fluoride application</li> <li>6. Follow up</li> <li>7. Preform tooth polishing</li> <li>8. Referral</li> </ul>	
6.	<p>Dental calculus</p> <ul 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> </ul>	
7.	<p>Role of local factors</p> <ul 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> </ul>	
8.	<p>Plaque control</p> <ul 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> <li>7. List different Anti plaque agent</li> <li>8. List properties &amp; uses of anti plaque agents</li> </ul>	

### UNIT – 3

#### DENTAL MATERIALS, INSTRUMENTS AND DENTAL ASSISTING

<b>Subunits</b>	<b>Topic Content</b>	<b>Hour</b>
1.	Introduction & biological consideration of dental materials 1. Describe and enlist commonly used dental materials 2. Discuss requirement of shelf life and storage of dental materials	
2.	Gypsum Products 1. Classify gypsum products and its application in dentistry 2. Describe properties of gypsum products 3. Explain manipulation process of gypsum products 4. Calculate recommended water power ratio	
3.	Composite resins 1. Describe composite resins 2. Enlist and explain types of composite resins 3. Manipulation process of composite resins 4. Explain the process of eye protection during light curing	
4.	Dental Amalgam 1. Describe dental amalgam 2. Classify amalgam 3. Describe composition of dental amalgam 4. Explain manipulation process of amalgam 5. Explain mercury hazard and wastage disposal methods of dental amalgam	
5.	Dental cements Zinc Oxide -eugenol 1. Describe Zinc Oxide-eugenol cement 2. Describe composition of zinc oxide-eugenol cement 3. Explain manipulation process of zinc oxide-eugenol cement	
6.	Zinc Phosphate 1. Describe zinc phosphate cement 2. Describe composition of zinc phosphate 3. Explain manipulation process of zinc phosphate	
7.	Glass ionomer cement 1. Describe glass ionomer cement 2. Classify glass ionomer cement 3. Describe composition of glass ionomer cement 4. Explain manipulation process of glass ionomer cement	
8.	Calcium hydroxide 1. Describe calcium hydroxide cement 2. Describe types of calcium hydroxide cement 3. Describe composition of calcium hydroxide cement 4. Explain manipulation process of calcium hydroxide cement	
9.	Dental waxes 1. Describe dental waxes 2. Enlist & explain types of dental waxes 3. Explain manipulation process of modeling wax	
10.	Identification of dental instruments 1. Describe and classify dental instruments 2. Discuss the identification of common diagnostic, restorative, endodontic, prosthodontic, orthodontic and oral surgery instruments.	
11.	Dental Chair Assistance 1. Enlist and identify various parts of dental chair and their functions 2. Demonstrate the operation of dental chair units into various positions	

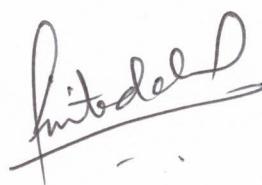
12.	<p>Chair-side assisting</p> <ol style="list-style-type: none"> <li>Demonstrate various positions of the operator and the assistant</li> <li>Describe various steps of patient preparation before operative procedure</li> <li>describe patient preparation in special situations including the case of child patient, handicapped patient, apprehensive patient, medically compromised patient, pregnant patient etc.</li> <li>Describe role of dental assisting in special situations including medical emergencies</li> <li>Describe role of dental assisting in special situation like choking or aspiration of instruments/materials by the patient</li> <li>Describe post treatment instruction after various dental procedures.</li> </ol>	
13.	<p>Saliva control and isolation</p> <ol style="list-style-type: none"> <li>Enlist different methods of saliva control &amp; isolation</li> <li>Describe use of suction machine for saliva control</li> <li>Describe application of rubber dam for isolation of tooth</li> <li>Prepare cotton roles for saliva control</li> </ol>	
14.	<p>Maintenance of dental equipment and instruments</p> <ol style="list-style-type: none"> <li>Cleaning           <ol style="list-style-type: none"> <li>Demonstrate cleaning of dental chair</li> <li>Demonstrate cleaning of dental equipment including suction apparatus, amalgamator, machine, autoclave, light cure machine, compressor etc.</li> <li>Describe disinfection of water pipe, hand piece chord, drainage system of dental chair unit</li> </ol> </li> </ol>	
15.	<p>Maintenance and servicing of dental equipment</p> <ol style="list-style-type: none"> <li>Describe air servicing of dental chair unit</li> <li>Demonstrate oiling/lubrication of dental chair unit and compressor</li> <li>Demonstrate oiling and storage of hand piece unit</li> <li>Demonstrate changing of cartridge of hand piece unit</li> <li>Demonstrate changing of bulb and cleaning of illumination panel</li> <li>Demonstrate changing of fuse wire of various electrical dental appliance</li> </ol>	
16.	<p>Dental waste disposal</p> <ol style="list-style-type: none"> <li>Define waste disposal</li> <li>Discuss the types of biological waste products in the dental operatory</li> <li>Explain mercury waste in the dental operatory</li> <li>Discuss the process of various biological and physical waste in the dental operatory</li> </ol>	

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## UNIT 4

### STERILIZATION

Subunits	Topic Contents	
1.	<p>Infection Control and Sterilization of dental instrument</p> <ol style="list-style-type: none"> <li>1. Define infection control</li> <li>2. Enumerate and explain various levels of infection control</li> <li>3. Define sterilization</li> <li>4. Define disinfection</li> <li>5. Describe antiseptic and asepsis with example</li> <li>6. Enlist different methods of sterilization</li> <li>7. Describe the process of sterilization and disinfection of various dental instruments</li> <li>8. Describe sterilization dental hand piece and instruments</li> </ol>	
2.	<p>Universal precaution</p> <ol style="list-style-type: none"> <li>1. Define universal precaution</li> <li>2. Describe procedures followed in universal precaution</li> <li>3. Hand scrubbing</li> <li>4. Explain process of hand scrubbing in operatory with their significance</li> </ol>	
3.	<p>Self protection</p> <ol style="list-style-type: none"> <li>1. Describe self protection in operatory</li> <li>2. Explain process of wearing face mask, gloves and gowns with their clinical significance</li> </ol>	
4.	<p>Decontamination</p> <ol style="list-style-type: none"> <li>1. Explain process of decontamination of gloves, linens and surgical drapes</li> <li>2. Decontaminate process of decontamination of dental equipment and instruments including dental chair, hand piece, suction apparatus, X-ray films etc</li> </ol>	
5.	<p>Clinical waste management</p> <ol style="list-style-type: none"> <li>1. Explain clinical waste</li> <li>2. List and explain the types of waste management</li> <li>3. Discuss clinical wastes of dental operatory</li> <li>4. Explain procedure of waste management of dental operatory</li> <li>5. Explain dental amalgam waste management</li> </ol>	
6.	<p>Infection control</p> <ol style="list-style-type: none"> <li>1. Describe personal aseptic measures take by the dental hygiene</li> <li>1. Describe various sterilization and aseptic procedures in dental operatory</li> <li>2. Describe possible cross infections during dental procedure</li> </ol>	
7.	<p>Hepatitis, HIV Infection, AIDS and Oral Health</p> <ol style="list-style-type: none"> <li>1. Define HIV, its pathogenesis and Epidemiology</li> <li>2. Discuss the oral manifestation of HIV</li> <li>3. Briefly discuss the prevention measures</li> <li>4. Write notes on hepatitis.</li> </ol>	

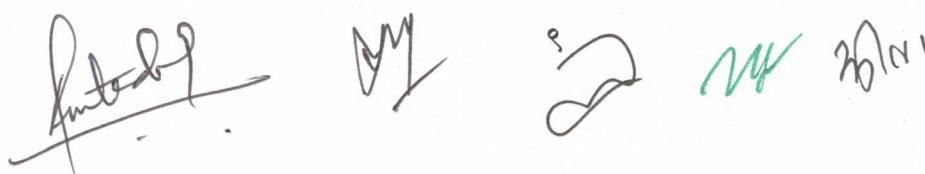




**UNIT-5**

**ORAL PATHOLOGY AND MICROBIOLOGY**

<b>S.N.</b>	<b>Topic Content</b>	<b>Hour</b>
1.	Oral Pathology 1. Define pathology 2. Write down concept of disease	
2.	Inflammation 1. Describe cause and types of inflammation 2. Describe clinical features of inflammation 3. Enumerate and explain cardinal signs of inflammation	
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	
4.	Space infection 1. Define space and enumerate spaces of oral-facial region 2. Describe cellulitis 3. Enumerate common dental space infections 4. Explain ludwig's angina	
5.	Cysts 1. Define cyst 2. Classify and enumerate common cystic lesions of the oral cavity 3. Describe odontogenic cysts	
6.	Tumors 1. Define tumor 2. Differentiate benign and malignant tumors	
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	
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	
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 5. Define prevention of dental caries	



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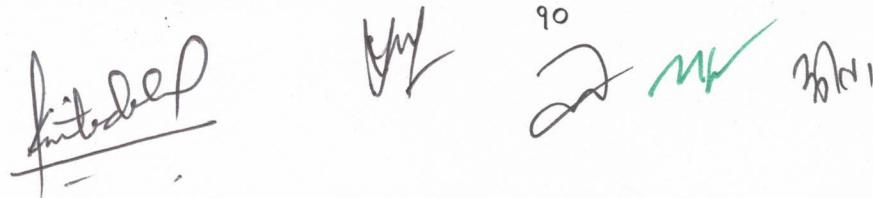
	<p>6. Enlist and discuss the etiologic factors of dental caries      7. Describe the role of diet in dental caries      8. Briefly describe the caries process      9. List and briefly discuss mechanical measures of caries control  <b>10. List and briefly discuss levels of prevention of dental caries.</b></p>	
<b>10.</b>	Diseases of pulp and peri-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	
<b>11.</b>	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.	

**Unit -6**  
**Basic Dental Pharmacology**

Subunits	Topic Content	Hour
<b>1</b>	Definition & Routes of drug administration Dental pharmacology & drugs administration 1. Define pharmacology & drugs 2. List different routes of administration with their advantage and disadvantages. <b>3. Discuss in brief about pharmaco-dynamics and pharmaco-kinetics of drugs.</b>	
<b>2</b>	Local drug Delivery 1. Describe in detail about Chlorhexidine gluconate as ant plaque agent including chew of action, user & side effect & drug dosage. <b>2. List different analgesic and anti microbial that can be used locally</b>	
<b>3</b>	Dentifrices 1. Define dentifrices. 2. List properties and types of dentifrices. 3. Describe functions of dentifrices. <b>4. List the composition/ingredients with their function</b>	
<b>4</b>	Mouth wash 1. Define mouth wash <b>2. List the use of mouth wash.</b>	
<b>5</b>	Hypersensitivity of teeth 1. Define hypersensitivity of teeth 2. Describe causes of hypersensitivity of teeth 3. Explain theories on hypersensitivity of teeth 4. Describe treatment and precautions for sensitive teeth 5. Explain post-scaling hypersensitivity and its remedy 6. Describe medicated dentifrices and their mechanisms of action 7. Describe iontophoresis	
<b>6</b>	Drug delivery system 1. Discuss local drug delivery system in periodontal therapy 2. Discuss various topical pharmacological agents use in periodontal therapy <b>3. Describe periodontal dressings</b>	
<b>7</b>	Patient management 1. Discuss education, motivation, and oral hygiene instruction to the patient 2. Discuss pain and anxiety control 3. Discuss post-operative instructions 4. Discuss periodontal treatment of medically compromised patient 5. Discuss periodontal treatment for highly sensitive patient 6. Discuss dental hygiene	

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<b>9</b>	Obtundants 1. Define obtundants. 2. List the uses of obtundants.	
<b>10</b>	Anti caries agent 1. Fine anti caries agent 2. Classify the anti caries agent 3. Describe mode of action on the prevention of caries. 4. Describe mode of action on the prevention of caries 5. Give brief over view on fluoride as antiquaries agent including source, fluoride vehicle, tropical system fluoridation & fluoride toxicity	
<b>11</b>	Astringents & Topical Anesthetic Agents 1. List different astringents & topical anesthetic agent.	
<b>12</b>	Drugs use in dentistry (Analgesics and Antimicrobials) Non opioid non Narcotic/ and opioid analgesic	
<b>13</b>	Classify analgesics Drug 1. List differences between non opioid(non Narcotic)/and opioid analgesic 2. Discuss in short about the groups of drugs under non opioid analgesic including mechanism action, uses and adverse reaction. 3. Discuss in short about the groups of drugs under opioid analgesic including mechanism of acted uses and adverse reaction.	

**UNIT-7 DENTAL  
RADIOGRAPHY AND DENTAL PHOTOGRAPHY**

Subunits	Topic Content	Hour
<b>1</b>	IOPA X-ray taking procedure 1. Describe various position of X-ray Tube (cone) during IOP X-ray taking 2. Explain the relation between x-ray cone and film distance and film holding methods 3. Discuss the X-Ray taking methods of upper centrals & Laterals incisors. 4. Discuss the X-ray taking methods of upper canines 5. Discuss the X-ray taking methods of upper premolars 6. Discuss the X-ray taking methods of upper molars 7. Discuss the X-ray taking methods of upper III Molars 8. Discuss the X-ray taking methods of Lower centrals & laterals 9. Discuss the X-ray taking methods of Lower canines 10. Discuss the X-ray taking methods of Lower Premolars 11. Discuss the X-ray taking methods of Lower Molars <b>12.</b> Discuss the X-ray taking methods of Lower III Molars	
<b>2</b>	Photographic Technique in Dentistry 1. Describe difference between intra oral and extra oral technique 2. Describe basic steps of intra oral photographic technique of a. Frontal view b. Right buccal view c. Left Buccal view d. Maxillary Occlusal e. Mandibular Occlusal 5. Describe basic steps of extra oral photographic technique of a. Full face view b. Profile view 6. Describe care and maintenance technique of dental photographic equipment	

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**UNIT -8**

**COMMUNITY DENTISTRY**

<b>Subunits</b>	<b>Topic Contents</b>	<b>Hour</b>
<b>1</b>	Fluorides in preventive Dentistry 1. Describe Fluoride 2. Briefly discuss the sources of Fluoride for adults and children 3. Discuss the metabolism of fluoride 4. Describe the mechanism of action of fluorides in caries reduction 5. List the fluoride delivery methods 6. List the briefly discuss the topical fluorides used in preventive dentistry 7. List the Fluoride vehicles 8. Describe the modes of action of fluoride 9. Briefly discuss toxicity of fluoride 10. Briefly discuss community water fluoridation and school water fluoridation	
<b>2</b>	Epidemiology, Etiology & Prevention of Oral Cancer, and Introduction to Oral cancer 1. Discuss the prevalence and incidence of Oral cancers 2. List and briefly discuss the Etiology of Oral cancers 3. Discuss the prevention and control of oral cancer 4. Discuss the effect of tobacco, smoking, and betel nut on oral health and in oral cancer	
<b>3</b>	Behavior 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	
<b>4</b>	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	
<b>5</b>	Survey Procedures 1. Define survey and list its types 2. Define basic oral health survey and pathfinder survey	
<b>6</b>	Dental Manpower and Dental Auxiliary Personnel 1. Define dentist, dental specialist 2. Define dental auxiliary and briefly discuss its classification	
<b>7</b>	Occupational Hazards and infection control in dentistry 1. Define Immunity 2. List the factors affecting disease 3. Enumerate the transmissible infections in Dentistry	







## UNIT 9

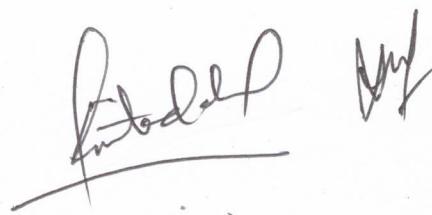
### PROSTHODONTICS

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.	Impression compound 1. Define impression compound 2. Describe ideal requirements of impression compound 3. Explain manipulation process of impression compound	
3.	Alginate 1. List and explain types of alginate 2. Explain manipulation process of alginate 3. Explain the process of loading alginate in the impression trays 4. Describe the storage of alginate	
4.	Lab Procedure of Partial Denture and Complete denture fabrication 1. Enumerate and classify elastomeric impression materials 2. Describe silicon based impression material and its manipulation 3. Describe agar impression material and its manipulation Describe storage of elastomeric impression materials	
5.	Dental models cast and die materials 1. Describe dental models, cast & die materials 2. Enlist different dental materials use for making model, cast & die 3. Discuss manipulation process of dental plaster, dental stone and die stone 4. Describe laboratory process of pouring of cast 5. Describe laboratory process of base forming of cast	

### UNIT-10

### ORAL AND MAXILLOFACIAL SURGERY

Subunits	Topic of contents	Hour
1.	Minor Surgery Extraction 1. Definition 2. Indication 3. Contraindications 4. Complication Operculectomy Apicectomy	







यस विषयको पाठ्यक्रमका एकाईहरूबाट सोधिने प्रश्नहरूको संख्या निम्नानुसार हुनेछ ।

Units	Objectives		Subjective		Subjective		Total marks
			(Short Answer)		(long Answer)		
	No of questions	Marks	No of questions	Marks	No of questions	Marks	
<b>1. Oral anatomy and physiology</b>							
Subunit 1-8	5	5	-	-	1	10	20
Subunit 9-15	5	5	-	-			
<b>2. Basic Periodontology I and II</b>							
Subunit 1- 8	5	5	1	5	-	-	10
<b>3. Dental materials, instruments and dental assisting</b>							
Subunit 1-5	6	6	1	5	1	10	33
Subunit 6-11	6	6					
Subunit 12-16	6	6					
<b>4. Sterilization</b>							
Subunit 1-7	5	5	1	5	-	-	10
<b>5.Oral pathology and microbiology</b>							
Subunit 1-11	5	5	-	-	-	-	5
<b>6. Basic dental pharmacology</b>							
Subunit 1-13	5	5	1	5	-	-	10
<b>7. Dental Radiography and Dental Photography</b>							
Subunit1-2	5	5	-	-	-	-	5
<b>8. Community dentistry</b>							
Subunit 1-3	5	5	1	5	1	10	25
Subunit 4-7	5	5					
<b>9.Prosthodontics</b>							
Subunits 1-5	7	7	1	5	1	10	22
<b>10. Oral and maxillofacial Surgery</b>							
Subunit 1	5	5	1	5	-	-	10
<b>Total</b>	<b>75</b>	<b>75</b>	<b>7</b>	<b>35</b>	<b>4</b>	<b>40</b>	<b>150</b>

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## प्रयोगात्मक परीक्षाको पाठ्यक्रम

समय: १ घण्टा ३० मिनेट

पूर्णाङ्क: ५०

उत्तीर्णाङ्क: २५

S.N	Topics / Areas to be examined	Time	Marks	Remarks
1.	Case history taking and presentation	40 Minutes	15	
2.	Treatment procedure to be done on the presented case by the examinee + Evaluation of the treatment by the examiner	20 Minutes	5	
3.	Objective Structured Clinical Examination (OSCE) – 4 stations	20 Minutes	$4 \times 5 = 20$	
4.	Viva	10 Minutes	10	
<b>Total</b>		<b>1Hr 30 Minutes</b>	<b>50</b>	

**“THE END”**

Handwritten signatures and initials in black and green ink, likely belonging to the examiners or administrator.