

**लोक सेवा आयोग**  
नेपाल स्वास्थ्य सेवा, डेन्टिष्ट्री समूह, सहायक पाँचौं तह, डेन्टल हाइजेनिष्ट वा सो सरह पदको खुला र आन्तरिक  
प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

यस पाठ्यक्रम योजनालाई दुई चरणमा विभाजन गरिएको छ :

प्रथम चरण :-	लिखित परीक्षा (Written Examination)	पूर्णाङ्क :- २००
द्वितीय चरण :-	अन्तर्वार्ता (Interview)	पूर्णाङ्क :- ३०

**परीक्षा योजना (Examination Scheme)**

प्रथम चरण : लिखित परीक्षा (Written Examination)

पूर्णाङ्क :- २००

पत्र	विषय	पूर्णाङ्क	उर्तीर्णाङ्क	परीक्षा प्रणाली		प्रश्नसंख्या × अङ्क	समय
प्रथम	सामान्य ज्ञान र सार्वजनिक व्यवस्थापन (General Awareness & Public Management)	१००	४०	वस्तुगत (Objective)	बहुवैकल्पिक प्रश्न (MCQs)	२० प्रश्न × २ अङ्क	४५ मिनेट
	सेवा सम्बन्धित कार्य-ज्ञान (Job Based - knowledge)					३० प्रश्न × २ अङ्क	
द्वितीय	सेवा सम्बन्धित कार्य-ज्ञान (Job Based - knowledge)	१००	४०	विषयगत (Subjective)	छोटो उत्तर (Short Answer) लामो उत्तर (Long Answer)	१२ प्रश्न × ५ अङ्क ४ प्रश्न × १० अङ्क	२ घण्टा १५ मिनेट

द्वितीय चरण : अन्तर्वार्ता (Interview)

पूर्णाङ्क :- ३०

पत्र /विषय	पूर्णाङ्क	उर्तीर्णाङ्क	परीक्षा प्रणाली
अन्तर्वार्ता (Interview)	३०		मौखिक (Oral)

**द्रष्टव्य :**

- यो पाठ्यक्रमको योजनालाई प्रथम चरण र द्वितीय चरण गरी दुई चरणमा विभाजन गरिएको छ ।
- लिखित परीक्षाको प्रश्नपत्रको माध्यम भाषा पाठ्यक्रमको विषयवस्तु जुन भाषामा दिइएको छ सोही भाषाको आधारमा नेपाली वा अंग्रेजी मध्ये कुनै एक मात्र भाषा हुनेछ । तर विषयवस्तुलाई स्पष्ट गर्नुपर्ने अवस्थामा दुवै भाषा समेत प्रयोग सकिने छ ।
- लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुनेछ ।
- प्रथम पत्र र द्वितीय पत्रको लिखित परीक्षा छुट्टाछुट्टै हुनेछ । तर एकैदिनमा परीक्षा लिइनेछ ।
- वस्तुगत बहुवैकल्पिक (Multiple Choice) प्रश्नको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत अङ्क कट्टा गरिनेछ । तर उत्तर नदिएमा त्यस बापत अङ्क दिइने छैन र अङ्क कट्टा पनि गरिने छैन ।
- वस्तुगत बहुवैकल्पिक हुने परीक्षामा परीक्षार्थीले उत्तर लेख्दा अंग्रेजी ठूलो अक्षरहरू (Capital letters): A, B, C, D मा लेख्नुपर्नेछ । सानो अक्षरहरू (Small letters): a, b, c, d लेखेको वा अन्य कुनै सङ्केत गरेको भए सबै उत्तरपुस्तिका रद्द हुनेछ ।
- बहुवैकल्पिक प्रश्न हुने परीक्षामा कुनै प्रकारको क्याल्कुलेटर (Calculator) प्रयोग गर्न पाइने छैन ।
- विषयगत प्रश्नहरूको हकमा तोकिएको अंकको एउटा लामो प्रश्न वा एउटै प्रश्नका दुई वा दुईभन्दा बढी भाग (Two or more parts of a single question) वा एउटा प्रश्न अन्तर्गत दुई वा बढी टिप्पणीहरू (Short notes) सोध्न सकिने छ ।
- विषयगत प्रश्न हुनेका हकमा प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरू हुनेछन् । परीक्षार्थीले प्रत्येक खण्डका प्रश्नको उत्तर सोहीखण्डको उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- परीक्षामा सोधिने प्रश्नसंख्या, अङ्क र अङ्कभार यथासम्भव सम्बन्धित पत्र/विषयमा दिइए अनुसार हुनेछ ।

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११. यस पाठ्यक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जेसुकै लेखिएको भए तापनि पाठ्यक्रममा परेका कानून, ऐन, नियम तथा नीतिहरू परीक्षाको मिति भन्दा ३ महिना अगाडि (संशोधन भएका वा संशोधन भई हटाईएका वा थप गरी संशोधन भई) कायम रहेकालाई यस पाठ्यक्रममा परेको सम्भन्नु पर्दछ ।
१२. प्रथम चरणको परीक्षाबाट छनोट भएका उम्मेदवारलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
१३. यस भन्दा अगाडि लागू भएको माथि उल्लेखित सेवा, समूहको पाठ्यक्रम खारेज गरिएको छ ।
१४. पाठ्यक्रम लागू मिति : - २०८०/१०/२२

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प्रथम पत्र (Paper I) :-

सामान्य ज्ञान र सार्वजनिक व्यवस्थापन तथा सेवा सम्बन्धित कार्य-ज्ञान

भाग (Part I) :

सामान्य ज्ञान र सार्वजनिक व्यवस्थापन

(General Awareness and Public Management)

खण्ड (Section - A) : (१० प्रश्न× २ अङ्क = २० अङ्क)

1. सामान्य ज्ञान (General Awareness)

- 1.1 नेपालको भौगोलिक अवस्था, प्राकृतिक स्रोत र साधनहरू
- 1.2 नेपालको ऐतिहासिक, सांस्कृतिक र सामाजिक अवस्था सम्बन्धी जानकारी
- 1.3 नेपालको आर्थिक अवस्था र चालु आवधिक योजना सम्बन्धी जानकारी
- 1.4 जैविक विविधता, दिगो विकास, वातावरण, प्रदुषण, जलवायु परिवर्तन र जनसंख्या व्यवस्थापन
- 1.5 मानव जीवनमा प्रत्यक्ष प्रभाव पार्ने विज्ञान र प्रविधिका महत्वपूर्ण उपलब्धिहरू
- 1.6 जनस्वास्थ्य, रोग, खाद्य र पोषण सम्बन्धी सामान्य जानकारी
- 1.7 नेपालको संविधान (भाग १ देखि ५ सम्म र अनुसूचीहरू)
- 1.8 संयुक्त राष्ट्रसंघ र यसका विशिष्टीकृत संस्था सम्बन्धी जानकारी
- 1.9 क्षेत्रीय संगठन (सार्क, बिमस्टेक, आसियान र युरोपियन संघ) सम्बन्धी जानकारी
- 1.10 राष्ट्रिय र अन्तर्राष्ट्रिय महत्वका समसामयिक गतिविधिहरू

खण्ड (Section - B) : (१० प्रश्न× २ अङ्क = २० अङ्क)

2. सार्वजनिक व्यवस्थापन (Public Management)

- 2.1 कार्यालय व्यवस्थापन (Office Management)
  - 2.1.1 कार्यालय (Office) : परिचय, महत्व, कार्य र प्रकार
  - 2.1.2 सहायक कर्मचारीका कार्य र गुणहरू
  - 2.1.3 कार्यालय स्रोत साधन (Office Resources): परिचय र प्रकार
  - 2.1.4 कार्यालयमा सञ्चारको महत्व, किसिम र साधन
  - 2.1.5 कार्यालय कार्यविधि (Office Procedure) : पत्र व्यवहार (Correspondence), दर्ता र चलानी (Registration & Dispatch), फाइलिङ (Filing), परिपत्र (Circular), तोक आदेश (Order), टिप्पणी लेखन र टिप्पणी तयार पार्दा ध्यान दिनुपर्ने कुराहरू
  - 2.1.6 अभिलेख व्यवस्थापन (Record Management)
- 2.2 निजामती सेवा ऐन र नियमावलीमा भएका देहायका व्यवस्थाहरू
  - 2.2.1 निजामती सेवाको गठन, संगठन संरचना, पदपूर्ति गर्ने तरिका र प्रक्रियाहरू
  - 2.2.2 कर्मचारीको नियुक्ति, सरुवा, बढुवा, विदा, विभागीय सजाय र अवकाश
  - 2.2.3 कर्मचारीले पालन गर्नुपर्ने आचरण, नैतिक दायित्व र कर्तव्यहरू
- 2.3 संघीय मामिला तथा सामान्य प्रशासन मन्त्रालय सम्बन्धी जानकारी
- 2.4 संवैधानिक निकाय सम्बन्धी जानकारी
- 2.5 सरकारी बजेट, लेखा र लेखापरीक्षण प्रणाली सम्बन्धी सामान्य जानकारी
- 2.6 सार्वजनिक सेवा प्रवाहको अर्थ, सेवा प्रवाह गर्ने निकाय, तरिका र माध्यमहरू
- 2.7 मानव अधिकार, सुशासन र सूचनाको हक सम्बन्धी सामान्य जानकारी
- 2.8 सार्वजनिक बडापत्र (Public Charter)
- 2.9 व्यवस्थापनको अवधारणा तथा सार्वजनिक व्यवस्थापनमा निर्देशन, नियन्त्रण, समन्वय, निर्णय प्रक्रिया, उत्प्रेरणा र नेतृत्व सम्बन्धी जानकारी
- 2.10 मानवीय मूल्य मान्यता (Human Values), नागरिक कर्तव्य र दायित्व तथा अनुशासन

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भाग (Part II) :-

सेवा सम्बन्धित कार्य-ज्ञान (Job Based - Knowledge)

(३० प्रश्न× २ अङ्क = ६० अङ्क)

**1. Health Service System**

- 1.1 Health service system in Nepal
- 1.2 History of the development of dental health services in Nepal
- 1.3 Purpose and characteristics of a dental health care system
- 1.4 Ayurvedic, homeopathic and allopathic approaches to dental health care
- 1.5 Introduction and functions of management
- 1.6 Health Management and Dental Health Management
- 1.7 Health Service planning system in Nepal
- 1.8 Types of health service organizations in Nepal including dental health services
- 1.9 Purpose, important and process of Health Management Information System (HMIS), use of the different types of HMIS forms, records and reports
- 1.10 Activities and goals Non-Governmental Organizations (NGOs) and International Non-Governmental Organizations (INGOs) are working in health sectors and their role in promoting the health care system
- 1.11 Objectives and activities of national health programmes
- 1.12 National Health Policy and National Oral Health Policy
- 1.13 General knowledge of current periodical plan related to health
- 1.14 Code of conduct for Dental Hygienist and its purpose
- 1.15 Formation, activities and functioning of the Nepal Health Professional Council

**2. Periodontics**

- 2.1 Introduction, scope and historical background of periodontology/periodontics
- 2.2 Definition, normal clinical and microscopic features of gingiva; development of gingival sulcus; renewal of gingival epithelium; blood supply, lymphatic drainage and nerve supply of gingiva; correlation of normal clinical and microscopic features of gingiva
- 2.3 Definition and functions of periodontal ligament and its fibres with illustrations
- 2.4 Describe cementum and its structure; classify and types of cementum; cemento-enamel junction
- 2.5 Definition and structure of alveolar process; socket wall and interdental septum; remodelling of alveolar bone; physiologic migration of the teeth; occlusal forces and the periodontium; defense mechanism in periodontal health
- 2.6 Classification of gingival and periodontal diseases as described in World Workshop on Periodontal Health 1999
- 2.7 Definition of epidemiology, incidence and index; epidemiology, prevalence and incidence of periodontal disease; indices used in periodontics; periodontal index, gingival index, oral science index and CPITN
- 2.8 Definition, structure, composition, physiologic properties and microbiology of dental plaque; formation of dental plaque; role of dental plaque in periodontal disease, association of plaque micro-organisms with periodontal disease, mechanism of inflammatory cell response
- 2.9 Classification, composition and etiologic significance of dental calculus
- 2.10 Aging and its effect on periodontium
- 2.11 Plaque control measures and its significance; classification of plaque control methods; personal oral science methods; use of disclosing agents
- 2.12 Tooth brush and its types; dentifrices and its composition; composition and

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mechanism of action of fluoridated toothpastes and desensitizing toothpastes; various types of tooth brushing methods and their significance in different patients; use of toothpick, dental floss, inter-dental brushes and gum massage / gum stimulator

- 2.13 Classification of chemical plaque control agents and their mechanism of action
- 2.14 Periodontal instrument design and classification; various diagnostic instruments; various manual periodontal instruments including hoe, files; various scalers, curets and root planning instruments; sonic, ultrasonic and piezo-electric scalers
- 2.15 Anatomic descriptions and considerations during periodontal instrumentation; patient and operator position; instrument grasp; establishing finger rests; instrument angulations, activation and adaptation; various strokes of using manual instruments
- 2.16 Principles and objective of sharpening; various sharpening stones and materials; sharpening of sickle scalers and curettes

### **3. Oral Pathology and Microbiology**

- 3.1 Concept, causes and types of inflammation and abscess
- 3.2 Definition of facial space and enumerate spaces of oro-facial region; cellulitis and its complications; common dental space infections and its complications; Ludwig's angina and its complications
- 3.3 Common oral ulcerations and lesions afflicting oral cavity; common viral lesions afflicting oral cavity; various pre-cancerous lesions and conditions
- 3.4 Oral manifestations of diabetes mellitus, leukemia, anemia, syphilis, tuberculosis, AIDS; candidiasis and oral thrush; HIV/AIDS and its prevention, mode of infection and oral manifestations; infective endocarditis and risk factors; clinical features and prophylaxis of infective endocarditis
- 3.5 Oral microbiology and normal oral flora of human being from birth to old age
- 3.6 Introduction to micro-organisms (bacteria, virus, fungi, protozoa, amoeba)
- 3.7 Source, types, clinical features and sequelae of infection
- 3.8 Definition of infection control, sterilization and disinfection; various levels of infection control; antiseptic and asepsis
- 3.9 Different methods of sterilization; fumigation procedure and safety factors
- 3.10 Definition and procedures followed in universal precaution
- 3.11 Concept and process of hand scrubbing in operatory with their significance; self protection in operatory; process of decontamination of gloves, linens and surgical drapes; decontaminate process of decontamination of dental equipment and instruments including dental chair, hand piece, suction apparatus, x- ray films
- 3.12 Types of waste management; clinical wastes and procedure of waste management of dental operatory; dental amalgam waste management

### **4. Oral Medicine and Radiology**

- 4.1 Oral medicine - definition, scope and clinical application
- 4.2 Principles of oral diagnosis, swelling, ulcer, sinus, fistula, mucosal lesions, pain and TMJ problems definitions
- 4.3 Case history and components; physical examination methodologies (general-extra oral, intra oral)
- 4.4 Concepts of provisional diagnosis and differential diagnosis
- 4.5 Clinical chair side investigations and radiological investigations - hematological, microbiological, histopathological
- 4.6 Final/confirmed diagnosis formulation of treatment plan referral for opinions

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- 4.7 Dental disorders- Developmental malformations, discoloration of teeth
  - 4.8 Diseases of the tongue and its manifestations in systemic diseases
  - 4.9 Concept of pre-malignancy – premalignant lesions and conditions and complications
  - 4.10 Oral cancer etiology, epidemiology, screening, clinical features, diagnosis, prevention and management and complications
  - 4.11 Diseases of salivary glands and complications
  - 4.12 Biologic effects of radiation and radiation protection
  - 4.13 Principles of radiotherapy – preparation of patient for oral radiotherapy, management of post radiation oral complications
  - 4.14 Basic radiographic techniques - IOPA, OPG, Lateral Ceph
  - 4.15 Advanced radiographic techniques - panoramic radiography, cephalometric radiography, CT scans, radionuclide diagnosis, digital radiography, applications of imaging in oral medicine - MRI, ultra sound
- 5. Oral and Maxillofacial Surgery**
- 5.1 Principles of surgery
  - 5.2 Local anaesthesia in dentistry - classification, composition, mechanism of action, ideal properties, complications
  - 5.3 Type of mandible and maxilla fracture and its basic management and complications
  - 5.4 Exodontia and its complications
  - 5.5 Impacted teeth, wisdom teeth and its significance with complications
  - 5.6 Oro-facial pain in brief
  - 5.7 Common medical emergencies, odontogenic space infections in brief, fungal and viral infections of head and neck in dental practice and their complications
  - 5.8 Incisional and excisional biopsy
  - 5.9 Assisting Dental Surgeons during various dental procedures
- 6. Conservative and Endodontics**
- 6.1 Definition, etiology, clinical features, sequelae and prevention of dental caries
  - 6.2 Definition, causes, clinical features and treatment options of attrition, abrasion and erosion
  - 6.3 Diseases of pulp and periapical tissues
  - 6.4 Classification, etiology, clinical features and sequelae of pulp and periapical tissues
  - 6.5 Classify dental injuries and storage of avulsed tooth following tooth avulsion
  - 6.6 Classify instruments for restorative and endodontic procedures
  - 6.7 Discuss the manipulation of various materials such as amalgam, composite, cements, calcium hydroxide, sealers
- 7. Dental Materials, Instruments and Dental Assisting**
- 7.1 Commonly used dental materials; importance of disinfection of dental materials; requirement of shelf life and storage of dental materials
  - 7.2 Gypsum products and its application in dentistry; manipulation process of gypsum products; calculation of recommended water power ratio; process of disinfection of gypsum materials
  - 7.3 Definition and classification of impression materials; desirable properties, process of transfer and storage of impression materials

## लोक सेवा आयोग

नेपाल स्वास्थ्य सेवा, डेन्टिष्ट्री समूह, सहायक पाँचौं तह, डेन्टल हाइजेनिष्ट वा सो सरह पदको खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

- 7.4 Ideal requirements and manipulation process of impression compound, zinc oxide eugenol impression paste, alginate, elastomeric impression material
- 7.5 Types of dental waxes and manipulation process of modeling wax
- 7.6 Dental models, cast and die materials and different dental materials used for making them; manipulation process of dental plaster, dental stone and die stone; laboratory process of pouring and base forming of cast
- 7.7 Identification and classification of dental instruments
- 7.8 Classification and types of impression trays; methods of sterilization of impression trays
- 7.9 Various parts of dental chair and their functions
- 7.10 Various positions of the operator and the assistant; various steps of patient preparation before operative procedure; post treatment instructions after various dental procedures
- 7.11 Different methods of saliva control and isolation; cotton roles for saliva control
- 7.12 Cleaning of dental equipment including suction apparatus, amalgamator, scaling machine, autoclave, light cure machine, compressor

### 8. Prosthodontics

- 8.1 Define partial edentulism
- 8.2 Etiology, clinical features, classification and sequel of partial edentulous situation
- 8.3 Prevention of partial edentulism
- 8.4 Define edentulism
- 8.5 Etiology and clinical features of edentulous situation
- 8.6 Prevention of edentulism
- 8.7 Instruments for various prosthodontic procedures
- 8.8 Sterilization and maintenance of instruments and equipments
- 8.9 Manipulation of various materials such as alginate, impression compound, various luting cements, zinc oxide eugenol

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- 9.1 Squeal of malocclusion
- 9.2 Complication of orthodontic treatment
- 9.3 Limitation of removable appliance
- 9.4 Complication of deep bite
- 9.5 TMJ problem referral
- 9.6 Referral - cross bite
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- 9.10 Root resorption

### 10. Pedodontics

- 10.1 Complication of extraction in children
- 10.2 Treatment modalities in open apex in permanent teeth
- 10.3 Complication of thumb sucking habit
- 10.4 Avulsion of a tooth and storing media
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प्रथम पत्रको लागि यथासम्भव निम्नानुसार प्रश्नहरू सोधिने छ ।

प्रथम पत्र (वस्तुगत)					
भाग	खण्ड	विषयबस्तु	परीक्षा प्रणाली	अङ्कभार	प्रश्न संख्या × अङ्क
<b>I</b>	<b>(A)</b>	सामान्य ज्ञान (General Awareness)	बहुवैकल्पिक प्रश्न (MCQs)	२०	१० प्रश्न × २ अङ्क = २०
	<b>(B)</b>	सार्वजनिक व्यवस्थापन (Public Management)		२०	१० प्रश्न × २ अङ्क = २०
<b>II</b>	-	सेवा सम्बन्धित कार्य-ज्ञान (Job Based -knowledge)		६०	३० प्रश्न × २ अङ्क = ६०

प्रथम पत्रको **भाग (Part II)** सेवा सम्बन्धित कार्य-ज्ञान (Job based -knowledge) को पाठ्यक्रमका इकाईबाट परीक्षामा यथासम्भव देहाय बमोजिम प्रश्नहरू सोधिने छ ।

इकाई	1	2	3	4	5	6	7	8	9	10
प्रश्न संख्या	2	5	2	2	2	5	5	3	2	2



द्वितीय पत्र (Paper II) :-  
सेवा सम्बन्धित कार्य-ज्ञान (Job based - knowledge)

खण्ड (Section) (A) : - ५० अङ्क

**1. Health Service System**

- 1.1 Health service system in Nepal
- 1.2 History of the development of dental health services in Nepal
- 1.3 Purpose and characteristics of a dental health care system
- 1.4 Ayurvedic, homeopathic and allopathic approaches to dental health care
- 1.5 Introduction and functions of management
- 1.6 Health Management and Dental Health Management
- 1.7 Health Service planning system in Nepal
- 1.8 Types of health service organizations in Nepal including dental health services
- 1.9 Purpose, important and process of Health Management Information System (HMIS), use of the different types of HMIS forms, records and reports
- 1.10 Activities and goals Non-Governmental Organizations (NGOs) and International Non-Governmental Organizations (INGOs) are working in health sectors and their role in promoting the health care system
- 1.11 Objectives and activities of national health programmes
- 1.12 National Health Policy and National Oral Health Policy
- 1.13 General knowledge of current periodical plan related to health
- 1.14 Code of conduct for Dental Hygienist and its purpose
- 1.15 Formation, activities and functioning of the Nepal Health Professional Council

**2. Periodontics**

- 2.1 Introduction, scope and historical background of periodontology/periodontics
- 2.2 Definition, normal clinical and microscopic features of gingiva; development of gingival sulcus; renewal of gingival epithelium; blood supply, lymphatic drainage and nerve supply of gingiva; correlation of normal clinical and microscopic features of gingiva
- 2.3 Definition and functions of periodontal ligament and its fibres with illustrations
- 2.4 Describe cementum and its structure; classify and types of cementum; cemento-enamel junction
- 2.5 Definition and structure of alveolar process; socket wall and interdental septum; remodelling of alveolar bone; physiologic migration of the teeth; occlusal forces and the periodontium; defense mechanism in periodontal health
- 2.6 Classification of gingival and periodontal diseases as described in World Workshop on Periodontal Health 1999
- 2.7 Definition of epidemiology, incidence and index; epidemiology, prevalence and incidence of periodontal disease; indices used in periodontics; periodontal index, gingival index, oral science index and CPITN
- 2.8 Definition, structure, composition, physiologic properties and microbiology of dental plaque; formation of dental plaque; role of dental plaque in periodontal

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- disease, association of plaque micro-organisms with periodontal disease, mechanism of inflammatory cell response
- 2.9 Classification, composition and etiologic significance of dental calculus
  - 2.10 Aging and its effect on periodontium
  - 2.11 Plaque control measures and its significance; classification of plaque control methods; personal oral science methods; use of disclosing agents
  - 2.12 Tooth brush and its types; dentifrices and its composition; composition and mechanism of action of fluoridated toothpastes and desensitizing toothpastes; various types of tooth brushing methods and their significance in different patients; use of toothpick, dental floss, inter-dental brushes and gum massage / gum stimulator
  - 2.13 Classification of chemical plaque control agents and their mechanism of action
  - 2.14 Periodontal instrument design and classification; various diagnostic instruments; various manual periodontal instruments including hoe, files; various scalers, curets and root planning instruments; sonic, ultrasonic and piezo-electric scalers
  - 2.15 Anatomic descriptions and considerations during periodontal instrumentation; patient and operator position; instrument grasp; establishing finger rests; instrument angulations, activation and adaptation; various strokes of using manual instruments
  - 2.16 Principles and objective of sharpening; various sharpening stones and materials; sharpening of sickle scalers and curettes

**3. Oral Pathology and Microbiology**

- 3.1 Concept, causes and types of inflammation and abscess
- 3.2 Definition of facial space and enumerate spaces of oro-facial region; cellulitis and its complications; common dental space infections and its complications; Ludwig's angina and its complications
- 3.3 Common oral ulcerations and lesions afflicting oral cavity; common viral lesions afflicting oral cavity; various pre-cancerous lesions and conditions
- 3.4 Oral manifestations of diabetes mellitus, leukemia, anemia, syphilis, tuberculosis, AIDS; candidiasis and oral thrush; HIV/AIDS and its prevention, mode of infection and oral manifestations; infective endocarditis and risk factors; clinical features and prophylaxis of infective endocarditis
- 3.5 Oral microbiology and normal oral flora of human being from birth to old age
- 3.6 Introduction to micro-organisms (bacteria, virus, fungi, protozoa, amoeba)
- 3.7 Source, types, clinical features and sequelae of infection
- 3.8 Definition of infection control, sterilization and disinfection; various levels of infection control; antiseptic and asepsis
- 3.9 Different methods of sterilization; fumigation procedure and safety factors
- 3.10 Definition and procedures followed in universal precaution
- 3.11 Concept and process of hand scrubbing in operatory with their significance; self protection in operatory; process of decontamination of gloves, linens and surgical

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drapes; decontaminate process of decontamination of dental equipment and instruments including dental chair, hand piece, suction apparatus, x- ray films

- 3.12 Types of waste management; clinical wastes and procedure of waste management of dental operatory; dental amalgam waste management

**4. Oral Medicine and Radiology**

- 4.1 Oral medicine - definition, scope and clinical application
- 4.2 Principles of oral diagnosis, swelling, ulcer, sinus, fistula, mucosal lesions, pain and TMJ problems definitions
- 4.3 Case history and components; physical examination methodologies (general-extra oral, intra oral)
- 4.4 Concepts of provisional diagnosis and differential diagnosis
- 4.5 Clinical chair side investigations and radiological investigations - hematological, microbiological, histopathological
- 4.6 Final/confirmed diagnosis formulation of treatment plan referral for opinions
- 4.7 Dental disorders- Developmental malformations, discoloration of teeth
- 4.8 Diseases of the tongue and its manifestations in systemic diseases
- 4.9 Concept of pre-malignancy – premalignant lesions and conditions and complications
- 4.10 Oral cancer etiology, epidemiology, screening, clinical features, diagnosis, prevention and management and complications
- 4.11 Diseases of salivary glands and complications
- 4.12 Biologic effects of radiation and radiation protection
- 4.13 Principles of radiotherapy – preparation of patient for oral radiotherapy, management of post radiation oral complications
- 4.14 Basic radiographic techniques - IOPA, OPG, Lateral Ceph
- 4.15 Advanced radiographic techniques - panoramic radiography, cephalometric radiography, CT scans, radionuclide diagnosis, digital radiography, applications of imaging in oral medicine - MRI, ultra sound

**5. Oral and Maxillofacial Surgery**

- 5.1 Principles of surgery
- 5.2 Local anaesthesia in dentistry - classification, composition, mechanism of action, ideal properties, complications
- 5.3 Type of mandible and maxilla fracture and its basic management and complications
- 5.4 Exodontia and its complications
- 5.5 Impacted teeth, wisdom teeth and its significance with complications
- 5.6 Oro-facial pain in brief
- 5.7 Common medical emergencies, odontogenic space infections in brief, fungal and viral infections of head and neck in dental practice and their complications
- 5.8 Incisional and excisional biopsy
- 5.9 Assisting Dental Surgeons during various dental procedures

**खण्ड (Section) (B) : - ५० अङ्क**

**6. Conservative and Endodontics**

- 6.1 Definition, etiology, clinical features, sequelae and prevention of dental caries
- 6.2 Definition, causes, clinical features and treatment options of attrition, abrasion and erosion
- 6.3 Diseases of pulp and periapical tissues
- 6.4 Classification, etiology, clinical features and sequelae of pulp and periapical tissues
- 6.5 Classify dental injuries and storage of avulsed tooth following tooth avulsion
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- 8.3 Prevention of partial edentulism
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- 8.5 Etiology and clinical features of edentulous situation

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द्वितीय पत्रको लागि यथासम्भव निम्नानुसार प्रश्नहरू सोधिनेछ ।

द्वितीय पत्र (विषयगत)					
पत्र	विषय	खण्ड	अङ्कभार	छोटो उत्तर	लामो उत्तर
द्वितीय	सेवा सम्बन्धित कार्य-ज्ञान (Job Based-Knowledge)	(A)	५०	६ प्रश्न × ५ अङ्क = ३०	२ प्रश्न × १० अङ्क = २०
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