प्रदेश लोक सेवा आयोग कर्णाली प्रदेश

स्थानीय तह अन्तर्गतका प्राविधिक तर्फ स्वास्थ्य सेवा, डेन्टिष्ट्रि समूह, सहायक पाँचौं तह, डेन्टल हाइजेनिष्ट पदको खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

पाठ्यक्रमको रुपरेखाः – यस पाठ्यक्रमको आधारमा निम्नानुसार चरणमा परीक्षा लिइने छः

लिखित परीक्षा पूर्णाङ्क:— १००

अन्तर्वार्ता पूर्णाङ्गः— २०

प्रथम चरणः-लिखित परीक्षा योजना (Examination Scheme)

विषय	पूर्णाङ्क	उत्तीर्णाङ्क	परीक्षा प्रणाली	प्रश्न संख्या x अङ्क भार	समय
सेवा सम्बन्धी	900	0	वस्तुगतः) बहुवैकल्पिक (Multiple Choice)	७० प्रश्न x १ अङ्क = ७०	१ घण्टा
			विषयगतः छोटो उत्तर (Short Answers)	६ प्रश्न x ५ अङ्क = ३०	३० मिनेट

द्वितीय चरण

विषय	पूर्णाङ्क	परीक्षा प्रणाली
व्यक्तिगत अन्तर्वार्ता	२०	मौखिक

द्रष्टव्यः

- १. लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुनसक्नेछ ।
- २. लिखित परीक्षाको वस्तुगत र विषयगत प्रश्नहरूको लागि छुट्टा छुट्टै उत्तरपुस्तिका परीक्षा सुरू हुनु अगावै दिइनेछ। परीक्षार्थीले वस्तुगत र विषयगत प्रश्नहरूको उत्तर सम्बन्धित उत्तरपुस्तिकामा लेख्नुपर्नेछ।
- ३. पाठ्यक्रमका एकाईवाट निम्नानुसार प्रश्नहरु सोधिनेछन् ।

एकाई	9	N	m	8	メ	w	9	V	o~	90
वस्तुगत	2	7	٧	5	7	7	7	ሂ	X	90
विषयगत	٩		٩	٩		٩		٩		٩

- ४. वस्तुगत बहुवैकिल्पिक (Multiple Choice) प्रश्नहरूको उत्तर सही दिएका प्रत्येक सही उत्तर बापत १ (एक) अङ्क प्रदान गरिनेछ भने गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत अङ्क कट्टा गरिनेछ । तर उत्तर निदएमा त्यस बापत अङ्क दिइने छैन र अङ्क कट्टा पिन गरिने छैन ।
- प्र. यस पाठ्यक्रममा जेसुकै लेखिएको भए तापिन पाठ्यक्रममा परेका ऐन, नियमहरु तथा नीतिहरु परीक्षाको मिति भन्दा ३ मिहना अगािड (संशोधन भएका वा संशोधन भई हटाईएका वा थप गरी संशोधनभई) कायम रहेकालाई यस पाठ्कममा परेको समझनु पर्दछ ।
- ६. प्रथम चरणको लिखित परीक्षाबाट छनौट भएका उम्मेदवारहरुलाई मात्र द्वितीय चरणको अन्तर्वार्तामा सम्मिलित गराइनेछ ।
- ७. पाठ्यक्रम लागू मिति:-२०७८/०९/२४

पत्र/विषय:- सेवा सम्वन्धी

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 approaches to dental health care
- 1.5. Types of health service organizations in Nepal including dental health services
- 1.6. Code of conduct for Dental Hygienist and its purpose
- 1.7. Health Service Act, 2053 and Regulation, 2055

2. Periodontics

- 2.1. Historical background of periodontics
- 2.2. Normal clinical and microscopic features of gingiva
- 2.3. periodontal ligament: Functions, fibres and periodontal diseases
- 2.4. Cementum: structure, classification, types
- 2.5. Alveolar process: structure, socket wall and interdental septum
- 2.6. Dental plaque and calculus: definition, structure, composition, microbiology, its complication and control measures
- 2.7. Aging and its effect on periodontium
- 2.8. 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 stimulator
- 2.9. Periodontal instrument design and classification
- 2.10. Patient and operator position
- 2.11. Periodontal instrumentation: Principles functions and its objective

3. Oral Pathology and Microbiology

- 3.1. Tooth: Anatomical structure, physiology and tooth function
- 3.2. Inflammation and abscess: concept, causes, types and its complication
- 3.3. Facial spaces, its infection and complications;
- 3.4. Oral microbiology, common oral ulcerations and lesions afflicting oral cavity (bacterial, viral, fungal, protozoal, amoebic)
- 3.5. Source, types, clinical features and sequelae of infection

- 3.6. Infection control: sterilization and disinfection
- 3.7. Definition and procedures followed in universal precaution
- 3.8. 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. Tongue: Structure, diseases and its systemic manifestations
- 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. Biological effects of radiation and radiation protection
- 4.13. Basic radiographic techniques: IOPA, OPG, Lateral Ceph
- 4.14. Advanced radiographic techniques: panoramic radiography, cephalometric radiography, CT scans, radionucleide 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. Mandible and maxilla fracture types 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
- 5.7. Common medical emergencies, odntogenic space infections, 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, types, 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. Manipulation of various materials such as amalgam, composite, cements, calcium hydroxide, sealers

7. Dental Materials, Instruments and Dental Assisting

- 7.1. Dental materials: Importance and disinfection
- 7.2. Gypsum products: Application, manipulation and disinfection
- 7.3. Impression materials: Definition, classification, desirable properties, process of transfer and storage of impression materials
- 7.4. Impression compound: Ideal requirements and manipulation process
- 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
- 7.12. Cleaning and disinfection of dental equipment

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 equipment
- 8.9. Manipulation of various materials such as alginate, impression compound, various luting cements, zinc oxide eugenol

9. Orthodontic

- 9.1. Squeal of malocclusion
- 9.2. Complication of orthodontic treatment
- 9.3. Removable appliance
- 9.4. Clinical features and complication of deep bite and cross bite
- 9.5. TMJ problem related to orthodontic treatment
- 9.6. Ideal age for orthopedic correction
- 9.7. Immediate treatment required cases for referral
- 9.8. Proclination of upper anterior, orthopaedics problems cross bite

10. Pedodontics

- 10.1. Complication of extraction in children
- 10.2. Treatment modalities in deciduous tooth
- 10.3. Complication of thumb sucking habit
- 10.4. Avulsion of a tooth and storing media
- 10.5. Different space maintainers used in children
- 10.6. Child psychology and behavioral management
- 10.7. Difference between primary and secondary tooth
- 10.8. Tooth eruption sequence and exfoliation age
- 10.9. Nursing bottle caries: Introduction, clinical features, management and its complication
- 10.10. Bacterial and viral disease related to child patient
- 10.11. Fluoride: Introduction, types, indication, contraindication, advantage, disadvantage and method of fluoride application
- 10.12. Trauma, tooth facture and management in child patient
- 10.13. Restoration materials in primary and secondary tooth

वस्तुगत प्रश्नहरु (Objective Questions)

- 1. Which of the following Local Anesthesia is used in Dentistry?
 - a. 2% lidocaine with 1:100000 epinephrine
 - b. 4% lidocaine with 1:100000 epinephrine
 - c. 0.5% bupivacaine with 1:100000 epinephrine
 - d. 2% articaine with 1:100000 epinephrine
- 2. What is the best storage media for avulsed tooth?
 - a. Milk
 - b. Patient's own Salvia
 - c. HBSS (Hank's Balanced Salt Solution)
 - d. Coconut water
- 3. Sterilization of RCT files is best done with
 - a. Autoclave
 - b. Hot air oven
 - c. Glass bead sterilizer
 - d. Chemical
- 4. Best Restorative material for deciduous teeth
 - a. Zinc phosphate
 - b. Composite
 - c. Glass ionomer
 - d. Amalgam
- 5. Eruption Age of permanent first molar is
 - a. 8-9 years
 - b. 10-13 years
 - c. 6-7 years
 - d. 17-21 years
- 6. 6 years old patient presents with pain in lower left back region. On examination 775 is carious and tender to percussion. what is the best choice of treatment?
 - a. Gic restoration
 - b. Extraction
 - c. Composite restoration

d. Pulpectomy

छोटो उत्तर प्रश्नहरू (Short Answer Questions)

- 1. Define calculus and write its composition. Mention the method of plaque formation and enlist brushing technique. [1+1+2+1]
- 2. Write the sequence of primary and secondary teeth eruption and differenciate between them. [2+3]
- 3. Enlist dental diseases. Define dental caries, its types, etiology and management [1+4]