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पाठ्यक्रम योजनालाई निम्नानुसारकादुई चरणमाविभाजनगरिएको छ:

 प्रथम चरण: लिखित परीक्षा
 पूर्णाङ्क :- २००

 द्वितीय चरण: अन्तर्वार्ता
 पूर्णाङ्क :- ३०

# परीक्षा योजना(Examination Scheme)

१. प्रथम चरण : – लिखित परीक्षा पूर्णाङ्क :– २००								
पत्र	विषय	पूर्णाङ्क	उतीर्णाङ्क	परीक्षा प्रणाली		प्रश्नसंख्या <b>X</b> अङ्क	समय	
प्रथम	प्राविधिक विषय, र सम्बन्धित	100	40	वस्तुगत	बहुवैकित्सिक प्रश्न	५० प्रश्न x२ अङ्ग	४५ मिनेट	
द्वितीय	कानूनहरु	100	40	विषयगत	प्रश्नोउत्तर	१० प्रश्न <b>x</b> १०अङ्क	३ घण्टा	
२. द्वितीय चरण : – अन्तर्वार्ता								
विषय		पूर्णाङ्क	उतीर्णाङ्ग	परीक्षा प्रणाली			समय	
अन्तर्वार्ता 30		30	_	मौखिक				

#### द्रष्टव्य :

- यो परीक्षा योजनालाई प्रथम चरण (लिखित परीक्षा) र द्वितीय चरण (अन्तर्वार्ता) गरी दुई चरणमा विभाजन गरिएको छ ।
- २. लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुनेछ ।
- ३. लिखित परीक्षामा यथासम्भव पाठ्यक्रमका सबै एकाईबाट प्रश्नहरु सोधिनेछ ।
- ४. वस्तुगत बहुवैकित्पिक (Multiple Choice) प्रश्नहरुको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत अङ्ग कट्टा गरिनेछ । तर उत्तर निदएमा त्यस बापत अङ्ग दिइने छैन र अङ्ग कट्टा पिन गरिने छैन ।
- ५. विषयगत प्रश्नमा प्रत्येक पत्र विषयका प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरु हुनेछन् । परिक्षार्थीले प्रत्येक खण्डका प्रश्नहरुको उत्तर सोही खण्डका उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- ६ यस पाठ्यक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जेसुकै लेखिएको भए तापिन पाठ्यक्रममा परेका कानून, ऐन, नियम तथा नीतिहरु परीक्षाको मिति भन्दा ३ महिना अगािड (संशोधन भएका वा संशोधन भई हटाईएका वा थप गरी संशोधन भई) कायम रहेकालाई यस पाठ्कममा परेको सम्भन् पर्दछ ।
- ७. प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरुलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
- ८. पाठ्यक्रम लागू मिति :-२०८१/०२/३१

नोटः प्रथम पत्र र द्धितिय पत्रको विषयवस्तु एउटै हुनेछ ।

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#### पत्र/विषय:-

## प्राविधिकविषय, र सम्बन्धितकानुनहरु

(Technical Subject, General Knowledge and Related Legislation)

#### खण्ड (A): 80 Marks

#### 1. **Introduction**

- 1.1 Definition and terminologies : Define Anatomy, Histology, Osteology, Embryology and Physiology
- 1.2 Explain anatomical terminologies: mesial, distal, buccal, labial, lingual, palatal, occlusal,incisal, dorsal, ventral etc.

#### 2. Skeleton system

- 2.1 Review of skeleton of head and neck
  - 2.1.1 Enumerate and describe the skeleton of cranium
  - 2.1.2 Enumerate skeleton of vertebra with emphasis on cervicle vertebra
- 2.2 Maxilla
  - 2.2.1 Describe structure and parts of maxilla
  - 2.2.2 List the attachment to the maxilla
  - 2.2.3 Describe position and relations of maxilla
- 2.3 Maxillary sinus
  - 2.3.1 Describe anatomy and structure
  - 2.3.2 Enumerate functions of maxillary sinus
- 2.4 Mandible
  - 2.4.1 Explain structure and parts of mandible
  - 2.4.2 List the attachment to the mandible
  - 2.4.3 Describe position and relations of the mandible
- 2.5 Identify skeleton of the head and neck
- 2.6 Identify maxilla and mandible with their parts & attachment

#### 3. Muscular System

- 3.1 Review on facial muscles
  - 3.1.1 Enumerate facial muscles
  - 3.1.2 List the functions of facial muscles
- 3.2 Muscles of mastication
  - 3.2.1 Enumerate muscles of mastication
  - 3.2.2 Describe origin, insertion and relation of muscles of mastication
  - 3.2.3 Describe functions of muscles of mastication
  - 3.2.4 Describe the role of buccinator& orbicularis oris
- 3.3 Identify facial muscles & muscles of mastication

#### 4. Temporo-mandibular joint

- 4.1 Define T.M.J.
- 4.2 Explain Structure of T.M.J. with diagram
- 4.3 Describe movements of T.M.J.
- 4.4 Locate T.M.J.
- 4.5 Demonstrate movements of T.M.J

#### 5. Oral cavity

5.1 Explain various parts of oral cavity

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- 5.2 Describe cheek, palate, floor of the mouth, vestibule, lips
- 5.3 Describe tongue, its structure and muscles of tongue
- 5.4 Describe taste buds and functions of tongue
- 5.5 Identify parts of oral cavity
- 5.6 Identify taste buds

#### 6. **Periodontium**

- 6.1 Gingiva
  - 6.1.1 Describe gingiva and gingival sulcus
  - 6.1.2 Explain structure and type of gingiva
  - 6.1.3 Explain Clinical feature of Gingiva
- 6.2 Periodontal ligament
  - 6.2.1 Describe periodontal ligament
  - 6.2.2 Enumerate fibres of periodontal ligament
  - 6.2.3 Explain functions of periodontal ligament
- 6.3 Cementum
  - 6.3.1 Describe cementum
  - 6.3.2 Enumerate types and functions of cementum
- 6.4 Alveolar bone
  - 6.4.1 Describe alveolar bone
  - 6.4.2 Explain properties and functions of alveolar bone

#### 7. Tooth

- 7.1 Growth and development of tooth
  - 7.1.1 Explain dental lamina & dental papilla
  - 7.1.2 Describe tooth bud
  - 7.1.3 Describe development of dentition and explain different stages of development
  - 7.1.4 Identify different stages of development of dentition
  - 7.1.5 Certificate in Dental Science, 200613
  - 7.1.6 Identify different stages of development of occlusion
  - 7.1.7 Find out the dental age of child
- 7.2 Anatomy of tooth
  - 7.2.1 List and describe the morphological parts of tooth
  - 7.2.2 List the structural parts of tooth
  - 7.2.3 Write down eruption and exfoliation sequence
  - 7.2.4 Differentiate between deciduous and permanent dentition
  - 7.2.5 Identify parts of tooth
  - 7.2.6 Differentiate each tooth, deciduous and permanent
  - 7.2.7 Draw diagrams of human dentition
  - 7.2.8 Perform wax carving of prototypes of permanent teeth
- 7.3 Occlusion
  - 7.3.1 Define occlusion
  - 7.3.2 Describe development of occlusion
- 7.4 Tooth numbering system
  - 7.4.1 List the different tooth numbering systems
  - 7.4.2 Explain merits and demerits of Zigmondy- palmer System, ADA System, FDI System

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## 8. Physiology of mastication & deglutition

- 8.1 Define mastication
- 8.2 Define deglutition
- 8.3 Describe physiology of mastication, deglutition
- 8.4 Differentiate between infantile swallow and mature swallow

#### 9. Salivary gland

- 9.1 Parotid, submandibular and sublingual gland
  - 9.1.1 Describe structure, position of parotid gland
  - 9.1.2 Describe structure, position of submandibular gland
  - 9.1.3 Describe structure, position of sublingual gland
- 9.2 Saliva
  - 9.2.1 Define saliva
  - 9.2.2 List types of saliva
  - 9.2.3 Describe composition of saliva
  - 9.2.4 Explain functions of saliva

#### 10. **Neurology**

- 10.1 Enumerate cranial nerves and their functions
- 10.2 Describe course, branches and functions of trigeminal nerve
- 10.3 Explain course, branches and functions of facial nerve

# 11. Dental Materials, Instruments & Dental Assisting

- 11.1 Introduction & biological consideration of dental materials
  - 11.1.1 Describe and enlist commonly used dental materials
  - 11.1.2 Discuss biological requirements of dental materials of dental materials
  - 11.1.3 Discuss on hazards from chemicals in dental materials
  - 11.1.4 Discuss on importance of disinfection of dental materials
  - 11.1.5 Discuss requirement of shelve life and storage of dental materials
- 11.2 Gypsum Products
  - 11.2.1 Classify gypsum products and its application in dentistry
  - 11.2.2 Describe properties of gypsum products
  - 11.2.3 Explain manipulation process of gypsum products
  - 11.2.4 Calculate recommended water power ratio
  - 11.2.5 Explain process of disinfection of gypsum materials
- 11.3 Impression materials
  - 11.3.1 Introduction
    - 11.3.1.1 Define impression material
    - 11.3.1.2 Classify impression materials
    - 11.3.1.3 Describe desirable properties of impression materials
    - 11.3.1.4 Describe process of disinfection of impression materials
    - 11.3.1.5 Describe the process of transfer of impression materials
    - 11.3.1.6 Describe the process of storage of impression materials
  - 11.3.2 Impression compound
    - 11.3.2.1 Define impression compound
    - 11.3.2.2 Describe ideal requirements of impression compound
    - 11.3.2.3 Explain manipulation process of impression compound
  - 11.3.3 Zinc oxide eugenol impression paste
    - 11.3.3.1 Describe zinc oxide eugenol impression paste

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		11.3.3.2 Explain the Manipulation process eugenol impre				
	11.3.4	Alginate				
		11.3.4.1	List and explain types of alginate			
		11.3.4.2	Explain manipulation process of alginate			
		11.3.4.3	Explain the process of loading alginate in the impression trays			
		11.3.4.4	Describe the storage of alginate			
	11.3.5	Elastomer	ic impression materials			
		11.3.5.1	Enumerate and classify elatomeric impression materials			
		11.3.5.2	Describe silicon based impression material and its manipulation			
		11.3.5.3	Describe agar impression material and its manipulation			
		11.3.5.4	Describe storage of elatomeric impression materials			
11.4	_	osite resins				
		composite resins				
	11.4.2 Enlist and explain types of composite resins					
		-	ion process of composite resins			
11 5		-	e process of eye protection during light curing			
11.5 Dental amalgam 11.5.1 Describe dental amalgam						
11.5.2 Classify amalgam						
<ul><li>11.5.3 Describe composition of dental amalgam</li><li>11.5.4 Explain manipulation process of amalgam</li></ul>						
			ercury hazard and wastage disposal methods of dental amalgam			
11 6		cements	ercury hazard and wastage disposal methods of dental amargam			
11.0		Zinc oxide	r-eugenol			
	11.0.1	11.6.1.1				
		11.6.1.2				
		11.6.1.3	Explain manipulation process of zinc oxide-eugenol cement			
11.6.2 Zinc phosphate						
	11.6.2.1 Describe zinc phosphate cement					
		11.6.2.2	Describe composition of zinc phosphate			
		11.6.2.3	Explain manipulation process of zinc phosphate			
	11.6.3	Glass iono	mer			
		11.6.3.1	Describe glass ionomer cement			
		11.6.3.2	• •			
		11.6.3.3	Describe composition of glass ionomer cement			
		11.6.3.4	Explain manipulation process of glass ionomer cement			
	11.6.4	Zinc polyc	·			
		11.6.4.1	Describe zinc polycarboxylate cement			
		11.6.4.2	Describe composition of polycarboxylate cement			
	11 6 5	11.6.4.3	Explain manipulation process of polycarboxylate cement			
	11.6.5	ydroxide  Describe calcium bydroxide coment				
		11.6.5.1	Describe calcium hydroxide cement			
		11.6.5.2	Describe types of calcium hydroxide cement			

- 11.6.5.3 Describe composition of calcium hydroxide cement
- Explain manipulation process of calcium hydroxide cement 11.6.5.4
- 11.7 Dental waxes
  - 11.7.1 Describe dental waxes
  - 11.7.2 Enlist & explain types of dental waxes
  - 11.7.3 Explain manipulation process of modeling wax

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- 11.8 Dental models, cast and die materials
  - 11.8.1 Describe dental models, cast & die materials
  - 11.8.2 Enlist different dental materials used for making model, cast & die
  - 11.8.3 Discuss manipulation process of dental plaster, dental stone and die stone
  - 11.8.4 Describe laboratory process of pouring of cast
  - 11.8.5 Describe laboratory process of base forming of cast
- 11.9 Dental instruments
  - 11.9.1 Identification of instruments
    - 11.9.1.1 Describe and classify dental instruments
    - 11.9.1.2 Discuss the identification of common diagnostic, restorative, endodontic, prosthodontic, orthodontic and oral surgery instruments
  - 11.9.2 Impression Trays
    - 11.9.2.1 Describe and classify impression trays
    - 11.9.2.2 Identify various types of impression trays
    - 11.9.2.3 Discuss the methods of sterilization of impression trays
- 11.10Dental assisting
  - 11.10.1Dental chair
    - 11.10.1.1 Enlist and identify various parts of dental chair and their functions
  - 11.10.2Chair-side assisting
    - 11.10.2.1 Demonstrate various positions of the operator and the assistant
    - 11.10.2.2 Describe various steps of patient preparation before operative procedure
    - 11.10.2.3 Describe patient preparation in special situations including the case of child patient, handicapped patient, apprehensive patient, medically compromised patient, pregnant patient etc.
    - 11.10.2.4 Describe role of dental assisting in special situations including medical emergencies
    - 11.10.2.5 Describe role of dental assisting in special situation like choking, or aspiration of dentalinstruments/materials by the patient
    - 11.10.2.6 Describe post treatment instructions after various dental procedures
  - 11.10.3Saliva control and isolation
    - 11.10.3.1 Enlist different methods of saliva control & isolation
    - 11.10.3.2 Describe use of suction machine for saliva control
    - 11.10.3.3 Describe application of rubber dam for isolation of tooth
    - 11.10.3.4 Prepare cotton roles for saliva control

## 12. Maintenance of dental equipment and instruments

- 12.1 Cleaning
  - 12.1.1 Demonstrate cleaning of dental chair
  - 12.1.2 Demonstrate cleaning of dental equipment including suction apparatus, scaling machine, autoclave, light cure machine, compressor etc.
  - 12.1.3 Describe disinfection of water pipe, handpiece chord, drainage system of dental chair unit
- 12.2 Maintenance and servicing of dental equipment
  - 12.2.1 Describe air servicing of dental chair unit

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- 12.2.2 Demonstrate oiling/lubrication of dental chair unit and compressor
- 12.2.3 Demonstrate oiling and storage of handpiece unit
- 12.2.4 Demonstrate changing of cartridge of handpiece unit
- 12.2.5 Demonstrate changing of bulb and cleaning of illumination panel
- 12.2.6 Demonstrate changing of fuse wire of various electrical dental appliance
- 12.3 Sterilization of dental instruments
  - 12.3.1 Define sterilization
  - 12.3.2 Enlist different methods of sterilization
  - 12.3.3 Describe the process of sterilization and disinfection of various dental instruments
  - 12.3.4 Describe sterilization dental handpiece
- 12.4 Dental waste disposal
  - 12.4.1 Define waste disposal
  - 12.4.2 Discuss the types of biological waste products in the dental operatory
  - 12.4.3 Explain mercury waste in the dental operatory
  - 12.4.4 Discuss the process of various biological and physical waste in the dental operatory

#### 13. **Oral Pathology**

- 13.1 Introduction
  - 13.1.1 Define pathology
  - 13.1.2 Write down concept of disease
  - 13.1.3 Describe etiology and pathogenesis of disease
  - 13.1.4 Explain disease process
  - 13.1.5 Define atrophy, hypertrophy, cell injury, cell death, ulcer, regeneration, necrosis, dysplasia, metaplasia, abfraction etc.
- 13.2 Inflammation
  - 13.2.1 Define inflammation
  - 13.2.2 Describe causes and types of inflammation
  - 13.2.3 Describe clinical features of inflammation
  - 13.2.4 Enumerate and explain cardinal signs of inflammation
- 13.3 Abscess
  - 13.3.1 Define Abscess
  - 13.3.2 Explain causes of abscess
  - 13.3.3 Enumerate and explain types of abscess
  - 13.3.4 Describe clinical features of abscess
  - 13.3.5 Describe alveolar abscess
  - 13.3.6 Describe periodontal abscess
- 13.4 Space infection
  - 13.4.1 Define Space and enumerate spaces of oro-facial region
  - 13.4.2 Describe cellulitis
  - 13.4.3 Enumerate common dental space infections
  - 13.4.4 Explain Ludwig's angina
- 13.5 Cysts
  - 13.5.1 Define cyst
  - 13.5.2 Classify and enumerate common cystic lesions of the oral cavity
  - 13.5.3 Describe odontogenic cysts
- 13.6 Tumors
  - 13.6.1 Define Tumor
  - 13.6.2 Classify and explain tumors

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- 13.6.3 Differentiate benign and malignant tumors
- 13.6.4 Enumerate common maxillofacial tumors
- 13.6.5 Discuss the mode of spread of tumors
- 13.6.6 Defferentiateodontogenic & non- odontogenic tumors
- 13.7 Developmental anomalies
  - 13.7.1 Explain development anomalies of tooth
  - 13.7.2 Explain development anomalies of oral structures
  - 13.7.3 Describe and classify cleft lip and palate
  - 13.7.4 Describe incidence and causes cleft lip and palate
- 13.8 Regressive alteration of tooth
  - 13.8.1 Define Attrition
  - 13.8.2 Describe causes & clinical feature of attrition
  - 13.8.3 Define Abrasion
  - 13.8.4 Describe causes & clinical of feature of abrasion
  - 13.8.5 Define Erosion
  - 13.8.6 Explain causes & clinical feature of erosion
- 13.9 Dental Caries
  - 13.9.1 Define dental caries
  - 13.9.2 Explain etiology and clinical feature of dental Caries
  - 13.9.3 Describe sequelae of dental caries
  - 13.9.4 Describe prevention of dental caries
- 13.10 Diseases of pulp and periapical tissues
  - 13.10.1Classify diseases of pulp
  - 13.10.2Describe etiology, clinical features and sequelae of pulp
  - 13.10.3Describe etiology, clinical features and sequelae of periapical tissues
- 13.11 Oral Lesion and Conditions
  - 13.11.1Discuss common oral ulcerations afflicting oral cavity
  - 13.11.2Discuss common oral lesions afflicting oral cavity
  - 13.11.3Discuss in brief about common viral lesions afflicting oral cavity
  - 13.11.4Discuss in brief about common vesiculo-bulous lesions afflicting oral cavity
  - 13.11.5Enumerate and explain various precancerous lesions and conditions
- 13.12 Systemic diseases and their oral manifestations
  - 13.12.1Discuss oral manifestations of diabetes mellitus
  - 13.12.2Discuss oral manifestations of leukemia, anemia
  - 13.12.3Discuss oral manifestations of syphilis, tuberculosis, AIDS etc.
  - 13.12.4Discuss candidiasis and oral thrush
  - 13.12.5Discuss hepatitis and its types
  - 13.12.6Discuss HIV/AIDS, its prevention, mode of infection and oral manifestations
  - 13.12.7Define infective endocarditis, list down risk factors
  - 13.12.8Describe clinical features & prophylaxis of infective endocarditis

#### 14. Oral Microbiology

- 14.1 Discuss oral microbiology
- 14.2 Discuss normal oral flora of human being from birth to old age
- 14.3 Describe micro-organisms in relation to dental caries
- 14.4 Describe micro-organisms in relation to periodontal disease
- 14.5 Enumerate microorganisms causing contamination and disease related to dentistry

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#### 15. Sterilization

- 15.1 Infection control
  - 15.1.1 Define infection control
  - 15.1.2 Enumerate and explain various levels of infection control
  - 15.1.3 Define sterilization
  - 15.1.4 Define disinfection
  - 15.1.5 Describe antiseptic and asepsis with example
- 15.2 Different methods of Sterilization
  - 15.2.1 Classify and explain different methods of sterilization
  - 15.2.2 Describe Physical methods of sterilization including dry heat, moist heat, gas, vapor andradiation sterilization
  - 15.2.3 Describe boiling and autoclaving methods of sterilization
  - 15.2.4 Describe chemical methods of sterilization including alcohol, gluteraldehyde and chlorinecompounds
  - 15.2.5 Explain fumigation procedure
  - 15.2.6 Explain Safety factors
- 15.3 Universal precaution
  - 15.3.1 Define universal precaution
  - 15.3.2 Describe procedures followed in universal precaution
- 15.4 Hand scrubbing
  - 15.4.1 Explain process of hand scrubbing in operatory with their significance
- 15.5 Self-protection
  - 15.5.1 Describe self-protection in operatory
  - 15.5.2 Explain process of wearing face mask, gloves and gowns with their clinical significance
- 15.6 Decontamination
  - 15.6.1 Explain process of decontamination of gloves, linens and surgical drapes
  - 15.6.2 Decontaminate process of decontamination of dental equipment and instruments includingdental chair, handpiece, suction apparatus, x- ray films etc.

#### 16. Clinical waste management

- 16.1 Explain clinical waste
- 16.2 List and explain the types of waste management
- 16.3 Discuss clinical wastes of dental operatory
- 16.4 Explain procedure of waste management of dental operatory
- 16.5 Explain dental amalgam waste management.

#### 17. Miscellaneous

- 17.1 X-rays used in the dentistry
- 17.2 Anti-microbial agents used in the dentistry

#### खण्ड (B): 20 Marks

#### 1. ऐन नियमहरु

- 1.1 पाटन स्वास्थ्यविज्ञानप्रतिष्ठान ऐन, २०६४
- 1.2 पाटन स्वास्थ्यविज्ञानप्रतिष्ठानको कर्मचारी सेवाकाशर्त र सविधा सम्वन्धीनियमावली, २०६७
- 1.3 पाटन स्वास्थ्यविज्ञानप्रतिष्ठानआर्थिक प्रशासनिनयमावली, २०६७

प्राविधिक सेवा, डेन्टल समूह, तह ५, ओरल हाईजिनिष्ट पदको आन्तरिक र खुला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

- 1.4 पाटनअस्पताल संचालनविनियमावली, २०६७
- 1.5 नेपाल स्वास्थ्य सेवा ऐन, २०५३ र स्वास्थ्य सेवानियमावली, २०५५
- 1.6 नेपाल स्वास्थ्यव्यवसायी परिषद् ऐन, २०५३
- 1.7 Computer and its applications: Windows basic, Word processing, Electronic spreadsheets, Presentation system, Multimedia, E-mail and Internet बारे जानकारी

प्रथमतथाद्वितीयपत्रमायथासम्भवनिम्नान्सार प्रश्नहरु सोधिनेछ ।

प्रथमपत्र							
ana	शहभाग	प्रश्न संख्या					
खण्ड	अङ्गभार	वस्तुगत	विषयगत				
Α	50	४० प्रश्न <b>x</b> २ अङ्क= ८०	- (())				
В	२०	१० प्रश्नx २ अङ्ग= २० -					
ড	ाम्मा	५० प्रश्नx २ अङ्ग= १००	V-				
द्वितीयपत्र							
खण्ड	अङ्गभार	प्रश्न संख्या					
9-5		वस्तुगत	विषयगतप्रश्न				
Α	900	-	१० प्रश्नx १० अङ्ग= १००				
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