

[KD 357]      **APRIL 2001**

M.D.S. DEGREE EXAMINATION.

Branch II — Periodontics

Part II

Paper II — PATHOLOGY, MICROBIOLOGY AND  
IMMUNOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the role of Dental Plaque biofilm. in periodontal disease. (25)
  2. Describe the factors regulating bone resorption in periodontal disease. (25)
  3. Write briefly on : (5 × 10 = 50)
    - (a) Histo pathology of Anug.
    - (b) Leukemic gingival enlargement.
    - (c) Mechanism and sequelae of food impaction.
    - (d) Possible etiologic relationship of ascorbic acid and periodontal disease.
    - (e) Microbiologic and immunological findings in Rapidly progressive periodontitis.
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[KE 357]

NOVEMBER 2001

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II — Periodontia

Part II

Paper II — PATHOLOGY, MICROBIOLOGY AND  
IMMUNOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the immunological aspects of periodontal disease. (25)
  2. Periodontal disease is not a continuous destructive process — Discuss. (25)
  3. Write briefly on : (5 × 10 = 50)
    - (a) Periodontal osseous defects
    - (b) Mechanism of periodontal destruction by microorganisms
    - (c) Refractory periodontitis
    - (d) Current concepts of pulpo-periodontal lesions
    - (e) Specific plaque hypothesis.
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**MARCH 2002**

**[KG 357]**

**M.D.S. DEGREE EXAMINATION.**

(Revised Regulations)

Branch II — Periodontics

Part II

Paper II — PATHOLOGY, MICROBIOLOGY AND  
IMMUNOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Write a brief note on host derived bone resorption factors. (25)
  2. What are the indications for microbiological tests and their practicability in periodontal treatment procedures? (25)
  3. Write briefly on : (5 × 10 = 50)
    - (a) Tissue response to increased occlusal forces.
    - (b) Pocket contents and significance of pus formation.
    - (c) Histopathology of desquamative gingivitis.
    - (d) Emigration and chemotaxis.
    - (e) Oral and periodontal manifestations in HIV infected patients.
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**SEPTEMBER 2002**

**[KH 357]**

**M.D.S. DEGREE EXAMINATION.**

(Revised Regulations)

**Branch II — Periodontics**

**Part II**

**Paper II — PATHOLOGY, MICROBIOLOGY AND  
IMMUNOLOGY**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. Describe in detail the pathogenesis of a periodontal pocket. (25)
2. Discuss the role of cytokines and growth factors in periodontal health and disease. (25)

3. Write briefly on : (5 × 10 = 50)

- (a) Matrix Metallo Proteinases
  - (b) Periodontal Abscess
  - (c) Pharmacologic Agents causing bone resorption
  - (d) Drug Induced Gingival Enlargement
  - (e) Pathologic Migration.
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**APRIL 2003**

**[KI 357]**

**Sub. Code : 2312**

**M.D.S. DEGREE EXAMINATION.**

**(Revised Regulations)**

**Branch II — Periodontics**

**Part II**

**Paper II — PATHOLOGY, MICROBIOLOGY AND  
IMMUNOLOGY**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. Enumerate the various viral lesions that affect oral cavity and its effect on periodontium. (25)
  2. Discuss the host modulation in the management of periodontal disease. (25)
  3. Write short notes on : (5 × 10 = 50)
    - (a) Porphyromonas gingivalis.
    - (b) Advanced glycation end products.
    - (c) Fibrinogen.
    - (d) Cytokines.
    - (e) PCR.
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OCTOBER 2003

[KJ 357]

Sub. Code : 2312

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II — PERIODONTICS

Part II

Paper II — PATHOLOGY, MICROBIOLOGY AND  
IMMUNOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and  
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

M.C.Q must be answered **SEPARATELY** on the  
answer sheet provided as per the instructions on the  
first page of MCQ Booklet.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

ESSAY

(2 × 15 = 30)

1. Discuss the role of GCF in the diagnosis and treatment of periodontal disease.
2. Describe in detail the pathogenesis of a periodontal pocket.

3. Short Notes

(10 × 5 = 50)

- (1) Enumerate the periodontal manifestations in AIDS patients.
- (2) Discuss the etiology and management of Pericoronitis.
- (3) Halitosis.
- (4) Genetic considerations in L.A.P. patients.
- (5) Leukocyte Adhesion Deficiency.
- (6) Plasma Cell Gingivitis.
- (7) Enumerate the histopathology, differential diagnosis and treatment of pemphigus vulgaris lesions?
- (8) Bone Morphogenic Proteins.
- (9) Discuss the advances in clinical diagnostic aids.
- (10) Discuss the various plaque hypothesis in relation to the current concepts in the microbiology of periodontal disease.

**APRIL 2004**

**KK 357]**

**Sub. Code : 2312**

**M.D.S. DEGREE EXAMINATION.**

**(Revised Regulations)**

**Branch II — Periodontics**

**Part II**

**Paper II — PATHOLOGY, MICROBIOLOGY AND  
IMMUNOLOGY**

**Time : Three hours**

**Maximum : 100 marks**

**Theory : Two hours and  
forty minutes**

**Theory : 80 marks**

**M.C.Q. : Twenty minutes**

**M.C.Q. : 20 marks**

**Answer ALL questions.**

**A. Essay. (2 × 15 = 30)**

(1) Discuss bacterial invasion and its role in the pathogenesis of periodontal disease.

(2) Discuss the role of cytokines in periodontal disease.

**B. Short notes on : (10 × 5 = 50)**

(1) Lipopolysaccharides

(2) Adhesins

(3) Coaggregation

(4) Established gingival lesion

(5) Pre-pubertal periodontitis

(6) Microbial diagnostic tests

(7) Gingival Gvickular Fluid

(8) Mast cells

(9) Plasma cell gingivitis

(10) Microbial specificity in Periodontal disease.

**AUGUST 2004**

**[KL 357]**

**Sub. Code : 2312**

**M.D.S. DEGREE EXAMINATION.**

(Revised Regulations)

**Branch II — Periodontics**

**Part II**

**Paper II — PATHOLOGY, MICROBIOLOGY AND  
IMMUNOLOGY**

Time : Three hours

Maximum : 100 marks

Theory : Two hours and  
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

**Answer ALL questions.**

**I. Essay :**

**(2 × 15 = 30)**

(1) Discuss in detail diagnosis of desquamative gingivitis — A systematic approach.

(2) Bone destruction caused by extension of gingival inflammation — Describe the various stages of destruction.

**II. Short notes :**

**(10 × 5 = 50)**

(a) Discuss the composition of sulcular fluid.

(b) Describe granulomatous diseases.

(c) Role of bacteria in etiology of necrotizing ulcerative gingivitis.

(d) Types of gingival disease in childhood.

(e) Microtopography of the gingival wall of periodontal pocket.

(f) Leukotoxins of actinobacillus actinomycetem comitans.

(g) Immunologic considerations in chronic periodontitis.

(h) Effect of periodontal infection on ischaemic heart disease.

(i) Biologic basis of occlusal function in periodontal disease.

(j) Diagnosis and classification of furcation defects.

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**[KL 357]**



**FEBRUARY 2005**

**[KM 357]**

**Sub. Code : 2312**

**M.D.S. DEGREE EXAMINATION.**

(Revised Regulations)

**Branch II — Periodontics**

**Part II**

**Paper II — PATHOLOGY, MICROBIOLOGY AND  
IMMUNOLOGY**

**Time : Three hours**

**Maximum : 100 marks**

**Theory : Two hours and  
forty minutes**

**Theory : 80 marks**

**M.C.Q. : Twenty minutes**

**M.C.Q. : 20 marks**

**Answer ALL questions.**

**Draw suitable diagrams wherever necessary.**

**I. Essay : (2 × 15 = 30)**

(1) Describe in detail the periodontal manifestations and management of the female patient during her life cycle.

(2) Discuss the role of Gingival crevicular fluid (G.C.F) enzymes as a diagnostic aid for periodontal diseases.

**II. Short notes : (10 × 5 = 50)**

(a) Discuss the genetic aspects of localized aggressive periodontitis.

(b) Elaborate on the role of matrix metallo proteinases in periodontal disease.

(c) Discuss the C/F, complications and management of pericoronitis.

(d) Refractory periodontitis.

(e) Discuss the role of H.pylori as a causative agent for periodontal diseases.

(f) Discuss the modes of progression of chronic destructive periodontal disease.

(g) Elaborate on the inter relationship between periodontal and respiratory diseases.

(h) Lipopoly saccharides.

(i) Analyse the focal infection concept and its current significance.

(j) Differential diagnosis (D/D) and management of Acute Herpetic Gingivo stomatitis.

SEPTEMBER 2006

[KP 357]

Sub. Code : 2312

M.D.S. DEGREE EXAMINATION.

(Revised Regulation)

Branch II — Periodontics

Part II

Paper II — PATHOLOGY, MICROBIOLOGY AND  
IMMUNOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and  
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(1) Define periodontal medicine. Explore the association between periodontal disease and coronary heart disease/atherosclerosis. (20)

(2) Discuss the statement :

"Not all *Actinobacillus actinomycetemcomitans* are created equal, but rather some strains are more virulent than others". (15)

(3) Discuss the role of Gingival Crevicular Fluid (G.C.F) enzymes as a diagnostic aid for Periodontal diseases. (15)

II. Short notes : (6 × 5 = 30)

(a) Smoking and gingival sulcular temperature

(b) Salivary antibodies

(c) Enzymes of bacterial origin detected in gingival crevicular fluid

(d) Colour changes in gingiva associated with various systemic diseases

(e) Gingival enlargement associated with calcium channel blockers

(f) Pemphigus Vulgaris.

**MARCH 2007**

**[KQ 357]**

**Sub. Code : 2312**

**M.D.S. DEGREE EXAMINATION.**

**(Revised Regulations)**

**Branch II — Periodontics**

**Paper II — PATHOLOGY, MICROBIOLOGY AND  
IMMUNOLOGY**

**(For candidates admitted from the academic year  
1993-94 onwards)**

**Time : Three hours                      Maximum : 100 marks**

**Theory : Two hours and                      Theory : 80 marks  
forty minutes**

**M.C.Q. : Twenty minutes                      M.C.Q. : 20 marks**

**Answer ALL questions.**

**Draw suitable diagrams wherever necessary.**

**I. Essay questions :**

**(1) Discuss clinical application of current  
research in periodontal wound healing and  
regeneration. (20)**

**(2) Discuss immunologic aspects of the microbial  
interaction with the host in periodontal disease. (15)**

**(3) Discuss research advances in periodontal  
diagnosis. (15)**

**II. Short notes : (6 × 5 = 30)**

**(a) Mechanism of trans-endothelial migration of  
cells during inflammation.**

**(b) Probiotics – Oral biofilm and microflora.**

**(c) Clinical implications of genetic studies in  
periodontal disease.**

**(d) Differential diagnosis of primary herpetic  
gingivo stomatitis.**

**(e) Critically evaluate periodontal tissue  
response to increased occlusal forces.**

**(f) Mechanisms of periodontal bone destruction.**