# [KD 356] APRIL 2001

## M.D.S. DEGREE EXAMINATION.

## Branch II - Periodontics

## Part II

## Paper I — BIOLOGY OF PERIODONTICS AND AETIOLOGY OF PERIODONTAL DISEASES

Time: Three hours Maximum: 100 marks

Answer ALL questions.

- Describe the histochemical aspects of normal gingiva. (25)
- Describe the genetic risk factors for periodontitis.
  (25)
- Write briefly on :

 $(5 \times 10 = 50)$ 

- (a) Cemento-Enamel Junction.
- (b) Color changes in the gingiva.
- (c) Characteristics of subgingival plaque.
- (d) Etiology and Pathogenesis of periodontal abscess.
  - (e) Clinical significance of Attached gingiva.

# **NOVEMBER 2001**

[KE 356]

## M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II - Periodontics

Part II

# Paper I — BIOLOGY OF PERIODONTICS AND AETIOLOGY OF PERIODONTAL DISEASES

Time: Three hours Maximum: 100 marks

Answer ALL questions.

- Discuss the significance of attached gingiva in periodontal health. (25)
- Evaluate Nutrition as a factor in the management and prevention of periodontal disease. (25)
- Write briefly on :

 $(5 \times 10 = 50)$ 

- (a) Structure of alveolar bone
- (b) Role of restorations in the etiology of periodontal disease
  - (c) Concept of microbial homeostasis
  - (d) Microcirculation of gingiva
- (e) Present concepts in the etiology of localised juvenile periodontitis.

# **MARCH 2002**

# [KG 356]

# M.D.S. DEGREE EXAMINATION

(Revised Regulations)

Branch II — Periodontics

## Part II

# Paper I — BIOLOGY OF PERIODONTICS AND AETIOLOGY OF PERIODONTAL DISEASES

Time: Three hours Maximum: 100 marks

# Answer ALL questions.

- Describe the normal microscopic and cellular elements of periodontal ligament with a special emphasis on transeptal group of fibres. (25)
- Describe the role of secondary local etiology factors which may predispose to periodontal disease. (25)
- Write briefly on :

 $(5 \times 10 = 50)$ 

- (a) Gingival bleeding.
- (b) Microtopography of gingival wall of the pocket.
  - (c) Pathways of gingival inflammation.
  - (d) Cementum in health and disease.
  - (e) Junctional epithelium.

## **SEPTEMBER 2002**

[KH 356]

## M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II - Periodontics

Part II

# Paper I — BIOLOGY OF PERIODONTICS AND AETIOLOGY OF PERIODONTAL DISEASES

Time: Three hours Ma

Maximum: 100 marks

# Answer ALL questions.

- Describe in detail the normal morphology, composition, radiographic appearance and functions of alveolar bone. (25)
- Discuss the role of faulty dentistry as a causative factor for periodontal diseases. (25)

- 3. Write briefly on:  $(5 \times 10 = 50)$ 
  - (a) Gingival Recession
  - (b) Vit. C deficiency and periodontal health
  - (c) Metal Intoxications-Periodontal Manifestations
- (d) Anatomic considerations in Periodontal Surgery
  - (e) Pregnancy Gingivitis.

# **APRIL 2003**

# [KI 356]

Sub. Code: 2311

## M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II - Periodontics

## Part II

# Paper I — BIOLOGY OF PERIODONTICS AND AETIOLOGY OF PERIODONTAL DISEASES

Time: Three hours Maximum: 100 marks

# Answer ALL questions.

Describe architecture of normal gingival tissues.

(25)

- Alterations in cementum resulting from periodontal pathology. (25)
- 3. Write short notes on:  $(5 \times 10 = 50)$ 
  - (a) Dental plaque induced gingival disease
  - (b) Odontogenesis
  - (c) Factors regulating bone formation
  - (d) Periodontal disease activity
  - (e) Macrophages.

## **OCTOBER 2003**

[KJ 356]

Sub. Code: 2311

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II — PERIODONTICS

Part II

Paper I — BIOLOGY OF PERIODONTICS AND AETIOLOGY OF PERIODONTAL DISEASES

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

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

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essay:  $(2 \times 15 = 30)$ 

- Periodontal disease and diabetes mellitus A 2 way relationship — Elaborate in detail.
- Describe in detail the microscopic features of gingival epithelium.

Short notes :

 $(10 \times 5 = 50)$ 

- Fibroblasts.
- (2) Gingival pigmentation.
- (3) Cementum in health and disease.
- (4) Structure of alveolar bone.
- (5) Matrix metallo proteinases.
- (6) Etiology of localized aggressive periodontitis.
- (7) Leukotoxins.
- (8) Role of orthodontic tooth movement in the etiology of periodontal disease.
  - (9) Mast cells.
- (10) Role of ascorbic acid as a factor in the etiology of periodontal disease.

## **APRIL 2004**

[KK 356]

Sub. Code: 2311

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II — PERIODONTICS

Part II

Paper I — BIOLOGY OF PERIODONTICS AND AETIOLOGY OF PERIODONTAL DISEASES

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.

A. Essay:

 $(2 \times 15 = 30)$ 

- Discuss in detail the biochemical aspects of normal periodontal connective tissues.
- (2) Discuss the host microbe interaction in periodontal diseases.

B. Short notes :

 $(10 \times 5 = 50)$ 

- (1) Gene Transcription.
- (2) Smoking and periodontal disease.

- (3) Growth Factor Receptors.
- (4) BIOFILM.
- (5) SPARC.
- (6) Actinobacillus Actinomycetem comtans.
- (7) Development of cementum.
- (8) Sex hormones.
- (9) Matrix metalloproteinases.
- (10) Periodontal complications associated with orthodontic therapy.

## **FEBRUARY 2005**

[KM 356]

Sub. Code: 2311

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II — Periodontics

Part II

Paper I — BIOLOGY OF PERIODONTICS AND AETIOLOGY OF PERIODONTAL DISEASES

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:

 $(2 \times 15 = 30)$ 

- Describe the various hematological disorders and their effects on the periodontium.
- (2) Elaborate in detail the role of various predisposing factors for periodontal diseases.

II. Short notes:

 $(10 \times 5 = 50)$ 

- (a) Discuss the role of mast cells in the inflammatory process
  - (b) Gingipains
- (c) Elaborate on the role of A.a. in periodontal disease
- (d) Briefly discuss the various endocrinologic disorders and their effects on the periodontium
- (e) Describe the role of minerals and trace elements in periodontal health
- (f) Critically evaluate the currently accepted classification of periodontal disease
- (g) Discuss the viral etiology of periodontal diseases
- (h) Describe the various systemic factors regulating Bone Remodelling
- (i) Discuss the clinical significance of Biologic Width
- (j) Elaborate on the Community Periodontal Index for Treatment Needs. (CPITN).

## SEPTEMBER 2006

[KP 356] Sub. Code : 2311

## M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II - Periodontics

#### Part II

# Paper I — BIOLOGY OF PERIODONTICS AND AETIOLOGY OF PERIODONTAL DISEASES

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.

## Essay:

- (1) Describe the composition and functions of Saliva. Discuss in detail the role of inorganic and organic constituents of saliva in the etiopathogenesis of periodontal disease. (20)
- (2) Discuss in detail the connective tissue elements of periodontal ligament. (15)
- (3) Describe the various hematological disorders and their effects on the periodontium (15)

## II. Short notes:

 $(6 \times 5 = 30)$ 

- (a) What are the various methods of epidemiological surveys?
- (b) Parafunctional habits and their effect on periodontal tissues.
- (c) What is bundle bone? Enumerate the various types of bone loss and bone destruction in periodontal disease.
  - (d) Gingival crevicular fluid.
- (e) Effect of female sex hormones on periodontium.
- (f) Causes of xerostomia and its effect of gingiva.

## **MARCH 2007**

[KQ 356]

Sub. Code: 2311

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II - Periodontics

Part II

Paper I — BIOLOGY OF PERIODONTICS AND AETIOLOGY OF PERIODONTAL DISEASES

(For candidates admitted from the academic year 1993 – 1994 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:

 Discuss Recent Research Advances in Periodontal Etiopathology. (20)

- Discuss stem cells in periodontal regeneration. (15)
- 3. Discuss microscopic structure and physiologic properties of Dental Plaque. (15)

II. Short notes :

 $(6 \times 5 = 30)$ 

- (a) Oxygen consumption of Gingiva.
- (b) Collagen Structure, Biologic properties.
- (c) Association between herpes virus and periodontal disease.
- (d) Effects of smoking on the etiology of periodontal disease.
- (e) Various enzymes and other components reported in gingival crevicular fluid.
- (f) Micro topography of the gingival wall of the pocket.