

**MARCH 2007**

**[KQ 389]**

**Sub. Code : 2405**

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

(Revised Regulations)

## Branch II — Periodontics

(For candidates admitted from the Academic Year  
2004–05 onwards)

**Paper I — APPLIED BASIC SCIENCES**

**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. Write an essay on

- (1) Muscles of mastication. (20)
- (2) Biochemical blood investigation. (15)
- (3) Local anesthetics. (15)

II. Write short notes on :

(6 × 5 = 30)

- (a) Local drug delivery system
- (b) Antiplatelet agent
- (c) Interleukin
- (d) Autoclave
- (e) Functions of insulin
- (f) Spread of tumours.

## **SEPTEMBER 2007**

**[KR 389]**

**Sub. Code : 2405**

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

**(Revised Regulations)**

**Branch II — Periodontics**

**(For candidates admitted from the Academic Year  
2004–05 onwards)**

### **Paper I — APPLIED BASIC SCIENCES**

**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 Diagrams wherever necessary.**

#### **I. Essay :**

- 1. Enumerate the factors of coagulation of blood.  
Discuss the process of blood coagulation in detail. (20)**
- 2. Discuss in detail the nerve supply of maxilla and  
mandible. (15)**

**3. Describe the various modes of sterilization of  
periodontal instruments. (15)**

#### **II. Write Short notes on : (6 × 5 = 30)**

- (a) Parathormone**
  - (b) Giant cell**
  - (c) Vitamin B complex**
  - (d) Bundle bone**
  - (e) Maxillary artery**
  - (f) Development of the root.**
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**MARCH 2008**

**[KS 362]**

**Sub. Code : 2405**

M.D.S DEGREE EXAMINATION.

(Revised Regulations)

Branch II — Periodontics

Paper I — APPLIED BASIC SCIENCES

**Q.P. Code : 242405**

(For candidates admitted from the Academic Year  
2004-05 onwards)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

I. Essay : (2 × 20 = 40)

(1) Describe the structural and functional aspects of the periodontal ligament. Discuss the clinical implications of pluripotential cells of periodontal ligament in periodontal regeneration. (20)

(2) Classify Analgesics. Discuss the role of various Non-steroidal Anti-inflammatory drugs (NSAIDS) in periodontal therapy. (20)

II. Write Short notes : (6 × 10 = 60)

1. Implant surface characteristics (Microdesign).
  2. Anatomy of Temporomandibular joint.
  3. Orofacial pain.
  4. Pharmacological agents affecting bone resorption.
  5. Microbial tests in periodontal diagnosis.
  6. Bleeding disorders.
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[KT 362]

September 2008

Sub. Code: 2405

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

**(Revised Regulations)**

**Branch II – PERIODONTICS**

(For Candidates admitted from the Academic Year  
2004-2005 onwards)

**Paper I – APPLIED BASIC SCIENCES**

*Q.P. Code : 242405*

**Time : Three hours**

**Maximum : 100 marks**

**Draw suitable diagram wherever necessary.**

**Answer ALL questions.**

**I. Essay questions :**

**(2 X 20 = 40)**

1. Classify leukocytes and discuss the role of neutrophils in health & disease.
2. Discuss in detail the surgical anatomy of periodontics.

**II. Write short notes on :**

**(6 X 10 = 60)**

1. Development of gingival sulcus.
  2. Tetracyclines in periodontics.
  3. Hepatitis - B.
  4. Halitosis.
  5. Laboratory tests for diabetes mellitus.
  6. Trace the pathway of pain for periodontium.
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**March 2009**

**[KU 362]**

**Sub. Code: 2405**

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

**Branch II – PERIODONTOLOGY**

**(Revised Regulations)**

**(For Candidates admitted from 2004 - 2005 onwards)**

**Paper I – APPLIED BASIC SCIENCES**

***Q.P. Code : 242405***

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions**

**Draw suitable diagram wherever necessary**

**I. Essay questions :**

**(2 x 20 = 40)**

1. Discuss the role of diet in health and disease of periodontium.
2. Describe the process of acute inflammation.

**II. Write short notes on :**

**(6 x 10 = 60)**

1. Local Anaesthetics.
2. Periodontal indices.
3. Collagen.
4. Gingival blood supply.
5. Facial nerve.
6. Bone coupling.

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**March 2010**

**[KW 362]**

**Sub. Code: 2405**

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

**Branch II – PERIODONTOLOGY**

**(Revised Regulations)**

**(For Candidates admitted from 2004 - 2005 onwards)**

**Paper I – APPLIED BASIC SCIENCES**

***Q.P. Code : 242405***

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions**

**Draw suitable diagram wherever necessary**

**I. Essay questions :**

**(2 x 20 = 40)**

1. Saliva – its role in health and disease. Discuss.
2. Write in detail about the mechanism of wound healing.

**II. Write short notes on :**

**(6 x 10 = 60)**

1. Routes of drug administration.
2. Immunoglobulins.
3. Anti coagulants.
4. TMJ
5. Cohort study.
6. Functions of periodontal ligament.

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**September 2010**

**[KX 362]**

**Sub. Code: 2405**

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

**Branch II – PERIODONTOLOGY**

**(Revised Regulations)**

**(For Candidates admitted from 2004 - 2005 onwards)**

**Paper I – APPLIED BASIC SCIENCES**

***Q.P. Code : 242405***

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions**

**Draw suitable diagram wherever necessary**

**I. Essay questions :**

**(2 x 20 = 40)**

1. Write in detail on inflammation, proinflammatory mediators in relation to periodontal inflammation.
2. Discuss on Cell structure, growth and differentiation. Add a note on different culture media and methods.

**II. Write short notes on :**

**(6 x 10 = 60)**

1. Development of Periodontal ligament.
2. Shock and its complications.
3. Muscles of mastication.
4. Branches of Biostatistics, collection of data and sampling.
5. Drug reactions and interactions.
6. Composition of blood.

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October 2011

[KZ 362]

Sub. Code: 2405

**M.D.S. DEGREE EXAMINATION**  
**BRANCH II – PERIODONTOLOGY**  
**PAPER I – APPLIED BASIC SCIENCES**

*Q.P. Code : 242405*

**Time : 3 hours**  
**(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. Gingival crevicular fluid.	6	18	10
2. Growth Factors.	6	18	10
3. Hemi desmosomes.	6	18	10
4. Pain pathways of periodontal ligament.	6	18	10
5. Pro inflammatory mediators.	6	18	10
6. Aggressive periodontitis.	6	18	10
7. Local drug Delivery.	6	18	10
8. Bio film –The different therapeutic target.	6	18	10
9. Anti Oxidants.	6	18	10
10. Regenerative concepts applied to furcations.	6	18	10

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**April 2012**

**[LA 362]**

**Sub. Code: 2405**

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

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code : 242405***

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. Development of gingival sulcus.	7	18	10
2. Structural and functional aspects of periodontal ligament.	7	18	10
3. Functions of insulin.	7	18	10
4. Regulation of salivary secretion.	7	18	10
5. Disposal of infectious waste.	7	18	10
6. Microbiology of wound infection.	7	18	10
7. Vascular changes in acute infection.	7	18	10
8. Healing by secondary intention.	7	18	10
9. Oral antifungal agents.	7	18	10
10. Antibiotic prophylaxis.	7	18	10

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[LB 362]

OCTOBER 2012

Sub. Code: 2405

**M.D.S. DEGREE EXAMINATION  
BRANCH II – PERIODONTOLOGY  
PAPER I – APPLIED BASIC SCIENCES  
Q.P. Code : 242405**

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. Facultative anaerobes of oral cavity.	7	18	10
2. Apoptosis.	7	18	10
3. Pathways of pain.	7	18	10
4. Effect of growth factors in wound healing.	7	18	10
5. Oral Thrush.	7	18	10
6. Connective tissue fibres of gingival.	7	18	10
7. Gingival lesions of genetic origin.	7	18	10
8. Metronidazole.	7	18	10
9. Salivary antibodies and antibacterial factors.	7	18	10
10. Gingival pigmentations.	7	18	10

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[LC 362]

APRIL 2013

Sub. Code: 2405

**M.D.S. DEGREE EXAMINATION  
BRANCH II – PERIODONTOLOGY  
PAPER I – APPLIED BASIC SCIENCES  
*Q.P. Code : 242405***

**Time : 3 hours**

**Maximum : 100 marks**

**(10x10=100)**

1. Classify ulcerative lesions of the oral cavity and describe the clinical features.
2. Biological width.
3. Lactic Acid Dehydrogenase.
4. Basal metabolic rate.
5. Define sterilization and disinfection. Mention methods of moist heat sterilization.
6. Antimicrobial combinations and their clinical utility.
7. Vitamin K.
8. Define Repair. Describe the process of healing of a surgical wound.
9. Phagocytosis.
10. Microbial tests in periodontal diagnosis.

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[LD 362]

OCTOBER 2013

Sub. Code: 2405

**M.D.S. DEGREE EXAMINATION  
BRANCH II – PERIODONTOLOGY  
PAPER I – APPLIED BASIC SCIENCES**

*Q.P. Code : 242405*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

**(10 x 10 = 100)**

1. DNA Probes
2. Cytokines
3. Blood supply to Gingiva
4. Saliva
5. Halitosis
6. Non inflammatory Destructive Periodontitis
7. Lamina Dura
8. Biology of periodontal wound healing.
9. Current concept in periodontal regeneration
10. Long junctional Epithelium.

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[LE 362]

**APRIL 2014**  
**M.D.S. DEGREE EXAMINATION**  
**BRANCH II – PERIODONTOLOGY**  
**PAPER I – APPLIED BASIC SCIENCES**

**Sub. Code: 2405**

***Q.P. Code : 242405***

**Time : 3 hours**

**Maximum : 100 marks**

**(10X10=100)**

1. Muscles of mastication.
2. Lab investigations in diabetes mellitus.
3. Role of saliva in periodontal health.
4. Fat soluble vitamins.
5. Describe erythropoiesis and factors affecting erythropoiesis.
6. PMN defects.
7. Sterilization.
8. Metronidazole.
9. Mechanism of collagen degradation.
10. Wound healing.

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