

MARCH 2007

[KQ 394]

Sub. Code : 2409

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

**(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 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 :

**(1) Describe the physiology of coagulation, its
mechanism and applications. (20)**

**(2) Describe the various aspects of oral anatomy
that influence the biocompatibility of dental materials. (15)**

**(3) Describe in detail amelogenesis. Add a note
on the applied aspects of it. (15)**

II. Short notes :

(6 × 5 = 30)

(a) Enamel organ and its function.

(b) Antibiotics and its use in dentistry.

(c) Blood supply to the upper teeth.

**(d) Role of nutrition in prevention of dental
diseases.**

(e) Healing after endodontic procedure.

(f) Sterilisation and Disinfection.

MARCH 2008

[KS 369]

Sub. Code : 2409

M.D.S. DEGREE EXAMINATION.

Branch III — Conservative Dentistry

Paper I — APPLIED BASIC SCIENCES

(Candidates admitted from 2004-05 onwards)

Q.P. Code : 242409

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Essay : (2 × 20 = 40)
 1. Describe muscles of mastication. (20)
 2. Describe physiology of pain. (20)
 - II. Short notes on : (6 × 10 = 60)
 1. Discuss infection control in dental office
 2. Calcium metabolism.
 3. Enamel organ and its function.
 4. Types of necrosis with examples.
 5. Describe various routes of drug administration.
 6. Microorganisms in oral cavity.
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September 2008

[KT 369]

Sub. Code: 2409

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III – CONSERVATIVE DENTISTRY

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

Paper I – APPLIED BASIC SCIENCES

Q.P. Code : 242409

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 20 = 40)

1. Describe the trigeminal nerve and its branches.
2. Oral manifestations of systemic conditions of dental relevance.

II. Write short notes on : (6 X 10 = 60)

1. Role of fluorides in dental health.
 2. Mechanisms of blood clotting.
 3. Modern methods of sterilization of endodontic instruments.
 4. Enamel hypoplasia.
 5. Orofacial pain.
 6. Role of analgesics in conservative dentistry and endodontics.
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March 2009

[KU 369]

Sub. Code: 2409

M.D.S. DEGREE EXAMINATION

Branch IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

(Revised Regulations)

(For Candidates admitted from 2004 - 2005 onwards)

Paper I – APPLIED BASIC SCIENCES

Q.P. Code : 242409

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions : (2 x 20 = 40)

1. Discuss the haemodynamic changes in acute inflammation.
2. Enumerate the various age changes in enamel dentin and pulp.

II. Write short notes on : (6 x 10 = 60)

1. Theories of pain.
2. Balanced diet.
3. Inferior alveolar nerve.
4. Blood groups and their significance.
5. Composition and functions of saliva.
6. Role of antibiotics in conservative dentistry and endodontics.

March 2010

[KW 369]

Sub. Code: 2413

M.D.S. DEGREE EXAMINATION

Branch IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

(Revised Regulations)

(For Candidates admitted from 2004 - 2005 onwards)

Paper I – APPLIED BASIC SCIENCES

Q.P. Code : 242413

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions : (2 x 20 = 40)

1. Discuss development, anatomy, morphology, blood and nerves supply of tongue.
2. Discuss the types, properties, pathways and mechanism of pain.

II. Write short notes on : (6 x 10 = 60)

1. Muscles of mastication.
2. Describe composition and function of saliva.
3. Role of fluorides in prevention of caries.
4. Methods of sterilization of endodontic instruments.
5. Calcium metabolism.
6. Antibiotics in endodontics.

September 2010

[KX 369]

Sub. Code: 2413

M.D.S. DEGREE EXAMINATION

Branch IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

(Revised Regulations)

(For Candidates admitted from 2004 - 2005 onwards)

Paper I – APPLIED BASIC SCIENCES

Q.P. Code : 242413

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions : (2 x 20 = 40)

1. Describe briefly the development and age changes of the mandible.
2. Classify premalignant lesions and conditions in relation to Dentistry.
Describe leukoplakia in detail.

II. Write short notes on : (6 x 10 = 60)

1. Vitamins and oral health.
2. Chemical disinfectant.
3. Genetic counselling.
4. Chemical mediators of inflammation.
5. Sub mandibular salivary gland.
6. E.faecalis and its significance in endodontics.

October 2011

[KZ 369]

Sub. Code: 2413

M.D.S. DEGREE EXAMINATION

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code : 242413

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

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Applied anatomy of Maxillary air sinus.	6	18	10
2. Trigeminal Nerve.	6	18	10
3. Define and Write about mechanism of Referred pain.	6	18	10
4. Balanced diet.	6	18	10
5. Antibiotics and its uses in Dentistry.	6	18	10
6. Hemostatics.	6	18	10
7. Healing in bone fractures.	6	18	10
8. Acquired Immunity.	6	18	10
9. Methods of sterilization of dental instruments.	6	18	10
10. Microbiology of Dental caries.	6	18	10

April 2012

[LA 369]

Sub. Code: 2413

M.D.S. DEGREE EXAMINATION

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code : 242413

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

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Maxillary artery.	7	18	10
2. Amelogenesis and its aspects.	7	18	10
3. Functions of platelets.	7	18	10
4. Referred pain- definition and mechanism.	7	18	10
5. Water soluble vitamins.	7	18	10
6. Healing by primary and secondary intention.	7	18	10
7. Lignocaine.	7	18	10
8. Use of opioids in endodontics.	7	18	10
9. Anaerobic culture methods.	7	18	10
10.Candida albicans.	7	18	10

[LB 369]

OCTOBER 2012

Sub. Code: 2413

**M.D.S. DEGREE EXAMINATION
BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS
PAPER I – APPLIED BASIC SCIENCES**

Q.P. Code : 242413

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

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Inferior alveolar nerve.	7	18	10
2. Sub-mandibular salivary gland.	7	18	10
3. Perception of pain in the mouth.	7	18	10
4. Chemistry of haemoglobin.	7	18	10
5. Cellular changes in acute inflammation.	7	18	10
6. Calcifications in pulp.	7	18	10
7. General properties and mechanism of action of local anaesthetics.	7	18	10
8. Glucose tolerance test.	7	18	10
9. Microbiology of Dental caries.	7	18	10
10. Enterococcus faecalis.	7	18	10

[LC 369]

APRIL 2013

Sub. Code: 2413

**M.D.S DEGREE EXAMINATION
BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS
PAPER I – APPLIED BASIC SCIENCES**

Q.P. Code: 242413

Time : 3 hours

Maximum : 100 marks

(10x10=100)

1. Discuss in detail functions of the pulp and its response to various stimuli.
2. Parotid Gland.
3. Fat Soluble Vitamins.
4. Salivary Immunoglobulins.
5. Hypothyroidism.
6. Microbial resistance and its clinical relevance.
7. COX- 2 Inhibitors.
8. Periapical Cyst.
9. Culture media for anaerobic organisms
10. Wound healing in endodontics.

[LD 369]

OCTOBER 2013

Sub. Code: 2413

M.D.S. DEGREE EXAMINATION
BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS
PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242413

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

(10 x 10 = 100)

1. Temporo Mandibular Joint
2. Vascular and Neural supply of maxillary teeth.
3. Essential Amino acids.
4. Pathway of Dental Pain
5. Chemiclaves
6. Candida Albicans
7. Transmission and prevention of Hepatitis B
8. Supplementary anesthetic techniques
9. Antibiotics in Endodontics
10. Drug allergy.

[LF 369]

OCTOBER 2014

Sub. Code: 2413

M.D.S. DEGREE EXAMINATION
BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS
PAPER I – APPLIED BASIC SCIENCES

Q.P. Code : 242413

Time : 3 Hours

Maximum : 100 marks

(10 x 10 = 100)

1. Sub mandibular salivary gland.
2. Fat soluble vitamins.
3. Pathway of Dental pain.
4. Acquired Immunity.
5. Methods of sterilisation of dental instruments.
6. Temporo Mandibular joint.
7. Balanced diet.
8. Periapical cyst.
9. Healing of bone fracture.
10. Pre anaesthetic medications.

[LG 369]

APRIL 2015

Sub. Code: 2413

M.D.S. DEGREE EXAMINATION

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code : 242413

Time: Three Hours

Maximum: 100 marks

(10 x 10 = 100)

1. Preanaesthetic medication.
2. Endodontic Biofilm.
3. Age changes in Temporomandibular Joint.
4. Applied Anatomy of Maxillary sinus.
5. Deficiency and toxicity symptoms of Fluoride.
6. Define Repair. Describe the process of repair of Surgical wounds.
7. Inferior alveolar nerve.
8. Disposal of wastes in Dental office.
9. Antibiotic Sensitivity Test.
10. Oral manifestations of systemic conditions of dental relevance.

[LH 369]

OCTOBER 2015

Sub. Code: 2413

M.D.S. DEGREE EXAMINATION
BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS
PAPER I – APPLIED BASIC SCIENCES

Q.P. Code : 242413

Time : 3 Hours

Maximum : 100 Marks

(10 x 10 = 100)

1. E. Faecalis and their significance in Endodontics.
2. Healing after Endodontic Procedures.
3. Role of antibiotics in Conservative Dentistry and Endodontics.
4. Infection control in Dental office.
5. Calcium Metabolism.
6. Age changes in Enamel and Dentin.
7. Role of fluoride in prevention of dental caries.
8. Lignocaine Vs Articaine.
9. Glucose Tolerance Test.
10. Culture methods in Endodontics.
