

MARCH 2007

[KQ 403]

Sub. Code : 2421

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Prosthodontics

**(For candidates admitted from the academic year
2004–2005 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. Essay :

1. Describe the anatomy of the temporomandibular joint and mention the importance of mandibular movements in prosthodontic treatment. (20)

2. Describe the musculature of tongue and the role of tongue positions in ensuring the success of removable prostheses. (15)

3. Write briefly about the composition and functions of saliva and the physiology of its secretion. (15)

II. Write short notes on : (6 × 5 = 30)

(a) Sterilization and disinfections protocol for control of Hepatitis B viral infection.

(b) Oral Candidiasis

(c) Factors influencing wound healing

(d) Role of Calcium and Vitamin D in growth and development of jaws.

(e) Sialogogues and anti-sialagogues

(f) Meckel's cartilage

MARCH 2008

[KS 388]

Sub. Code : 2421

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Prosthodontics

(For candidates admitted from the academic year
2004–2005 onwards)

Paper I — APPLIED BASIC SCIENCES

Q.P. Code : 242421

Time : Three hours

Maximum : 100 marks

I. Essay :

1. Discuss the Temporomandibular joint and its prosthodontic considerations. (20)
2. Discuss in detail the various luting agents used in dentistry. (20)

II. Short notes : (6 × 10 = 60)

1. Tarnish and corrosion.
 2. Toxicity evaluation of dental materials.
 3. Disinfection of impressions.
 4. Nutritional factors in completely edentulous patients.
 5. Phosphate bonded investments.
 6. Tissue conditioners.
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AUGUST 2008

[KT 388]

Sub. Code: 2421

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI – PROSTHODONTICS

(For Candidates admitted from 2004-2005 onwards)

Paper I – APPLIED BASIC SCIENCES

Q.P. Code : 242421

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Discuss the role of Masticatory Muscles in Prosthodontics.
2. Discuss indepth, the recent advances in Dental Ceramics.

II. Write short notes on :

(6 X10 = 60)

1. Titanium.
 2. Elastomers.
 3. Glass Ionomers.
 4. Tongue and effects in prosthesis.
 5. Development of Palate.
 6. Nutrition.
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[KU 388]

Sub. Code: 2421

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

**Branch I – PROSTHODONTICS AND CROWN & BRIDGE
(For Candidates admitted from 2004 to 2005 onwards)**

Paper I – APPLIED BASIC SCIENCES

Q.P. Code : 242421

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

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

1. Discuss the Tempero-mandibular joint and its prosthodontic considerations .
2. Discuss the patho – physiology of Residual Ridge resorption.

II. Write short notes on : (6 X10 = 60)

1. Composition and functions of saliva.
2. Calcium metabolism
3. Sterilization and infection control in prosthodontics
4. Bio-compatibility.
5. Oral microbial flora
6. Denture base resins.

March 2010

[KW 388]

Sub. Code: 2401

M.D.S. DEGREE EXAMINATION

Branch I – PROSTHODONTICS AND CROWN & BRIDGE

(Revised Regulations)

(For Candidates admitted from 2004 to 2005 onwards)

Paper I – APPLIED BASIC SCIENCES

Q.P. Code : 242401

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :

(2 x 20 = 40)

1. Discuss the applied surgical anatomy of various facial spaces in relation to spread of infection from dental origin.
2. Describe blood grouping. Add a note on blood transfusion and its complications.

II. Write short notes on :

(6 x 10 = 60)

1. Principles of antibiotic therapy.
2. Surgical anatomy of temporomandibular joint and add a note on clicking.
3. Emergency tracheostomy.
4. Embryological development of palate.
5. Biological basis for distraction osteogenesis and its application in oral and maxillofacial surgery.
6. Calcium metabolism.

September 2010

[KX 388]

Sub. Code: 2401

M.D.S. DEGREE EXAMINATION

Branch I – PROSTHODONTICS AND CROWN & BRIDGE

(Revised Regulations)

(For Candidates admitted from 2004 to 2005 onwards)

Paper I – APPLIED BASIC SCIENCES

Q.P. Code : 242401

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :

(2 x 20 = 40)

1. Describe the muscles of mastication and facial expression and their functional significance in denture service.
2. Describe the statement “Meet the mind of the patient you meet the mouth” with reference to prosthetic treatment.

II. Write short notes on :

(6 x 10 = 60)

1. Importance of patient's diet in Complete Denture Patients.
2. Disinfection. Asepsis and Sterilization.
3. Repair and Healing.
4. Colour and its role in Prosthodontics.
5. Defective Casting.
6. Use and Abuse of Denture Adhesives.

October 2011

[KZ 388]

Sub. Code: 2401

M.D.S. DEGREE EXAMINATION

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code : 242401

**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. Muscles of Mastication.	6	18	10
2. Development of Palate and its anomalies.	6	18	10
3. Functions of Saliva.	6	18	10
4. Mechanism of hemostasis.	6	18	10
5. Healing and Repair.	6	18	10
6. Infection Control and Hospital waste management.	6	18	10
7. Factors affecting alveolar bone resorption.	6	18	10
8. Oral Microbial flora.	6	18	10
9. Denture Adhesives.	6	18	10
10. Local anesthesia in Prosthodontics.	6	18	10

April 2012

[LA 388]

Sub. Code: 2401

**M.D.S. DEGREE EXAMINATION
BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE
PAPER I – APPLIED BASIC SCIENCES
Q.P. Code : 242401**

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

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Describe the course of trigeminal nerve with suitable diagrams.	7	18	10
2. Write in detail about the intrinsic and extrinsic muscles of tongue.	7	18	10
3. Narrate the pathway of pain from the tooth pulp.	7	18	10
4. Write about the mucopolysaccharides and essential amino acids.	7	18	10
5. Describe the preanesthetic medication and add a note on ketamine anesthesia.	7	18	10
6. Mention the role of vitamin-C and vitamin-D.	7	18	10
7. Write in detail about the precancerous lesions of oral cavity.	7	18	10
8. Describe the healing of the fractured mandible.	7	18	10
9. Write in detail about the micro-organism responsible for dental caries.	7	18	10
10. Describe the organisms involved in Vincenti infection and oral thrush.	7	18	10

[LB 388]

OCTOBER 2012

Sub. Code: 2401

M.D.S. DEGREE EXAMINATION
BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE
PAPER I – APPLIED BASIC SCIENCES
Q.P. Code : 242401

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Describe the anatomy of temporomandibular joint with suitable diagrams.	7	18	10
2. Write in detail about the major salivary glands of oral cavity.	7	18	10
3. Describe the mechanism of salivary secretions and add a note on its composition and function.	7	18	10
4. Write in detail about the calcium metabolism and manifestation of its deficiency.	7	18	10
5. Write in detail about the different types of anesthesia and add a note on various local anesthetic agents used in dentistry.	7	18	10
6. Mention the role of vitamin-K in clotting mechanism and add a note on haemostatics.	7	18	10
7. Describe the cysts of jaw.	7	18	10
8. Write about the healing of tooth socket following dental extraction.	7	18	10
9. Describe the different methods of sterilization advocated in dental surgery.	7	18	10
10. Discuss Immunoglobulins.	7	18	10

[LC 388]

APRIL 2013

Sub. Code: 2401

M.D.S. DEGREE EXAMINATION
BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE
PAPER I – APPLIED BASIC SCIENCES
Q.P. Code : 242401

Time : 3 hours

Maximum : 100 marks

(10x10=100)

1. Bio – Materials used for Alveolar ridge augmentation.
2. Anatomy and Physiology of circum oral musculature.
3. Sterilization and Disinfection.
4. Hyper sensitivity reactions.
5. Anabolism and Catabolism.
6. Cone beam C.T.
7. Taste Buds.
8. Tissue Conditioners.
9. Titanium.
10. Micro Anatomy of Bone.

[LD 362]

OCTOBER 2013

Sub. Code: 2401

M.D.S. DEGREE EXAMINATION
BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE
PAPER I – APPLIED BASIC SCIENCES

Q.P. Code : 242401

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

(10 x 10 = 100)

1. Discuss the development of mandible
2. Write in detail about the physiology and pathology of residual ridge resorptions
3. Write in detail about the diabetes mellitus and mention its significance in prosthetic management.
4. Discuss the various mandibular movements and their regulations by muscle and Ligaments.
5. Write about the investment material used in prosthodontics
6. Write briefly about the different types of benign tumors of the jaws.
7. Discuss the vitamin C synthesis and its role in healing process.
8. Mention the white lesions of the oral cavity with their clinical features.
9. What is osteomyelitis? Mention the management of osteomyelitis of body of the mandible.
10. What is an analgesic? Mention the usage of NSAID in the preprosthetic surgeries.
