MARCH 2007

[KQ 390] Sub. Code : 2406

M.D.S. DEGREE EXAMINATION.
(Revised Regulations)

Branch II — Periodontics
(For candidates admitted from the Academic Year 2004-05 onwards)

Paper II — ETIOPATHOGENESIS OF PERIODONTAL DISEASES

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 questions:

1. Discuss the inter-relationship of diabetes and periodontal disease. (20)

2. Discuss the etiology of aggressive periodontitis and add a note on its treatment. (15)

3. Discuss the validity of different plaque hypothesis. (15)

II. Short notes: (6 x 5 = 30)

(a) Tissue response to increased occlusal forces
(b) Etiology of periodontal abscess
(c) Mechanism of drug induced gingival hyperplasia
(d) Stages of gingivitis
(e) Non-plaque associated gingivitis
(f) Subgingival plaque.

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[KQ 390]
M.D.S. DEGREE EXAMINATION.  
(Revised Regulations)  
Branch II — Periodontics  
(For candidates admitted from the Academic Year  
2004-05 onwards)  
Paper II — ETIOPATHOGENESIS OF PERIODONTAL  
DISEASES

Time : Three hours  
Theory : Two hours and  
forty minutes  
M.C.Q. : Twenty minutes  
Maximum : 100 marks  
Theory : 80 marks  
M.C.Q. : 20 marks  
Answer ALL questions.  

I.  Essay:  
1. Define biofilm. Discuss the properties of dental biofilms. Describe the role of the same in the etiology of periodontal diseases.  
(20)  
2. Define trauma from occlusion. Give its clinical and radiological features. Discuss the current understanding of its role in the etiology of periodontal disease.  
(15)  
3. Describe the pathogenesis of drug induced gingival overgrowth.  
(15)  

II. Write short notes on:  
(a) Pathogenesis of periodontal abscess.  
(b) Matrix metalloproteinases.  
(c) 'Burnout' phenomenon.  
(d) Acute pericoronitis.  
(e) Reactive oxygen species.  
(f) Pathologic migration.  

(6 x 5 = 30)
MARCH 2008


M.D.S. DEGREE EXAMINATION.
(Revised Regulations)
Branch II — Periodontics
(For candidates admitted from the Academic Year
2004-05 onwards)

Paper II — ETIOPATHOGENESIS OF PERIODONTAL DISEASES

Q.P. Code : 242406

Time : Three hours Maximum : 100 marks

Answer ALL questions.

I. Essay :

(1) Discuss the role of microbes in the etiology of periodontal
disease. (20)

(2) Discuss the effect of periodontal disease on systemic
health. (20)

II. Short notes :

1. Reactive oxygen species.
2. Localise aggressive periodontitis.
3. Idiopathic gingival enlargement.
4. Oral Manifestations of HIV infection.
5. Oral Malodor.
6. Role of tobacco in etiology of periodontal disease.
M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II – PERIODONTICS

(For Candidates admitted from 2004-2005 onwards)

Paper II – ETIOPATHOGENESIS OF PERIODONTAL DISEASES

Q.P. Code : 242406

Time : Three hours       Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

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

1. Discuss the various risk factors, risk determinants and risk indicators for periodontal disease.

2. Discuss the current concept of porphyromonas gingivitis (Pg) in periodontal disease and various models related to Pg.

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

1. Natural Killer (NK) cells.

2. Mode of calculus attachment to the tooth surface.

3. Capnocytophaga.


6. Iatrogenic factors in periodontal disease.

_____________
I. Essay questions:  

1. Discuss the influence of diabetes mellitus on the periodontium.  
2. Discuss the role of stress in periodontal disease.

II. Write short notes on:  

1. Parafunctional habits.  
2. Gingipain.  
3. Dental calculus.  
4. Marsh hypothesis.  
5. Plaque complex.  
I. Essay questions:

1. Discuss the etiopathogenesis of pulpo – periodontal lesions.
2. Discuss oral and periodontal lesions associated with skin diseases.

II. Write short notes on:

1. Periodontal abscess.
2. Primary trauma from occlusion.
3. Drugs in the pathogenesis of gingival over growth.
4. Actinobacillus actinomyctem comitans.
5. NUG.
I. Essay questions:
1. State analytically the host-bacteria interactions in periodontal disease.
2. Discuss the Etiopathogenesis of Acute necrotizing ulcerative gingivitis.

II. Write short notes on:
1. Food impaction.
2. Theories of calculus formation.
4. Primary trauma from occlusion.
5. Periodontal disease activity.
I. Elaborate on :

1. Endocrinal influences in the etiopathogenesis and management of periodontal diseases.  
   Pages: 6  
   Time: 18  
   Marks: 10

2. Systemic neutrophil abnormalities associated with aggressive periodontitis.  
   Pages: 6  
   Time: 18  
   Marks: 10

3. Effect of occlusal forces on the periodontium.  
   Pages: 6  
   Time: 18  
   Marks: 10

   Pages: 6  
   Time: 18  
   Marks: 10

5. Effect of smoking on etiology and pathogenesis of periodontal diseases.  
   Pages: 6  
   Time: 18  
   Marks: 10

6. Periodontal changes in pregnancy and puberty.  
   Pages: 6  
   Time: 18  
   Marks: 10

7. Genetic and heritable factors in gingiva.  
   Pages: 6  
   Time: 18  
   Marks: 10

8. Porphyromonas gingivalis is an etiologic agent of destructive periodontal disease - Justify.  
   Pages: 6  
   Time: 18  
   Marks: 10

9. Mineralization of calculus.  
   Pages: 6  
   Time: 18  
   Marks: 10

10. Discuss the orthodontic considerations in Periodontal therapy.  
    Pages: 6  
    Time: 18  
    Marks: 10
M.D.S. DEGREE EXAMINATION

BRANCH II – PERIODONTOLOGY

PAPER II – ETIOPATHOGENESIS OF PERIODONTAL DISEASES

Q.P. Code : 242406

Time : 3 hours (180 Min)  Maximum : 100 marks

Answer ALL questions in the same order.

Pages  Time  Marks
(Max.)  (Max.)  (Max.)

1. T-cell Interaction.  7  18  10

2. Actionobacillus Actionomycetum Committans.  7  18  10

3. Traumatic Occlusion.  7  18  10

4. Biologic Width.  7  18  10

5. Herpetic Lesions of Gingiva.  7  18  10

6. Dequamative Gingivitis.  7  18  10

7. Marsh hypothesis.  7  18  10

8. Iatrogenic factors in periodontitis.  7  18  10

9. Guided tissue Regeneration.  7  18  10

10. Plaque Complex.  7  18  10

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## M.D.S DEGREE EXAMINATION

**BRANCH II – PERIODONTOLOGY**

**PAPER II – ETIOPATHOGENESIS OF PERIODONTAL DISEASES**

*Q.P. Code: 242406*

**Time: 3 hours**

*(180 Min)*

**Maximum: 100 marks**

### Answer ALL questions in the same order.

<table>
<thead>
<tr>
<th>Question</th>
<th>Pages</th>
<th>Time</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Factors affecting the composition of subgingival biofilm.</td>
<td>7</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>2. Etiopathology of tooth mobility.</td>
<td>7</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>3. Modification of host – bacteria relationship in smoking.</td>
<td>7</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>4. Disease – modifying genes in relation to peri-implantitis.</td>
<td>7</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>5. Trauma from occlusion cannot induce tissue breakdown. Discuss.</td>
<td>7</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>6. Gingival diseases associated with malnutrition.</td>
<td>7</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>7. Periodontitis as a risk for adverse pregenancy outcomes.</td>
<td>7</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>8. Role of iatrogenic factors in periodontal disease and management.</td>
<td>7</td>
<td>18</td>
<td>10</td>
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<tr>
<td>9. Histopathogenesis of furcations involvement.</td>
<td>7</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>10. Immunological profile of subjects with periodontitis.</td>
<td>7</td>
<td>18</td>
<td>10</td>
</tr>
</tbody>
</table>

**********
1. Stress and periodontitis.

2. Controversies in the classification of periodontal diseases.


5. Third generation mouthwashes in Non surgical procedures.


7. Home care oral hygiene procedures and interdental cleansing aids.

8. Modified widman’s flap.


**********
I. Elaborate on: (10 x 10 = 100)

1. Bone resorption in periodontal disease.
2. Microbial changes associated with orthodontic therapy
3. Causes of failure of periodontal treatment
4. Pericoronitis
5. Immunological profile of subject with periodontitis.
6. Theories of the etiology of bruxism
7. Mechanism and pathogenesis of pocket formation
8. Etiology of trauma from occlusion.
9. Concepts of stress in psychosomatic factors
10. Aa-its role in bone destruction.

**********
1. Influence of stress on periodontal therapy.

2. Bacterial behaviour in biofilm.

3. Disease-modifying genes in relation to periodontitis.

4. Mineralization of calculus.

5. Host response and predisposing factors in necrotizing periodontal disease.

6. Prerequisites for periodontal disease initiation and progression.

7. Factors responsible for periodontal failures.

8. Aggregatibacter actinomycetomcomitans is an etiologic agent of destructive periodontal diseases – Justify.

9. Parafunctional habits and the periodontium.

10. Role of cytokines in periodontal disease.
1. Endocrinal influences in the etiopathogenesis and management of periodontal diseases.

2. Systemic neutrophil abnormalities associated with aggressive periodontitis.

3. Effect of occlusal forces on the periodontium.


5. Effect of smoking in etiology and pathogenesis of periodontal diseases.

6. Periodontal changes in pregnancy and puberty.

7. Genetic and heritable factors in gingival.

8. Porphyromonas gingivatis is an etiologic agent of destructive periodontal disease – Justify.


10. Discuss the orthodontic considerations in periodontal therapy.
M.D.S. DEGREE EXAMINATION

BRANCH II – PERIODONTOLOGY

PAPER II – ETIOPATHOGENESIS OF PERIODONTAL DISEASES

Q.P. Code : 242406

Time: Three Hours Maximum: 100 marks

(10 x 10 = 100)

1. Etiopathogenesis of drug induced gingival enlargement.

2. Halitosis.

3. Periodontal wound healing.


5. Stress induced periodontitis – discuss.


7. Discuss etiology, histopathology and clinical features of adult periodontitis.

8. Role of saliva in defense mechanism.

9. Composition and mode of attachment of calculus.

10. Causes of pathological migration.

******
1. Pathogenesis of herpes virus associated periodontal diseases.
2. Etiology of recession.
3. Desquamative gingivitis.
4. Smoking induced periodontitis.
5. Periodontal abscess.
6. Role of iatrogenic factors in periodontal diseases.
7. Role of cytokines in periodontal diseases.
8. Classification and pathogenesis of periodontal pockets.
10. Gingival and periodontal changes during pregnancy.
I. Essays: (2 x 20 = 40)

1. Discuss the role of plaque in the etiology of periodontal disease.

2. Classify gingival enlargement. Discuss in detail about drug induced gingival enlargement and its current concepts.

II. Short Notes: (7 x 5 = 35)

1. Two way relationship between diabetes mellitus and periodontal disease.

2. Sub antimicrobial dose of doxycycline.

3. Halitosis and its management.

4. GCF biomarkers.

5. Virulence factors.

6. Burn out phenomenon.

7. Microbial profile for Aggressive periodontitis.
M.D.S DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 onwards)

BRANCH II – PERIODONTOLOGY
PAPER II – ETIOPATHOGENESIS

I. Essays: (2 x 20 = 40)

1. Disease modifying gene in relation to periodontitis.

2. Role of radiographs and other imaging technics in the diagnosis of periodontal disease.

II. Short Notes: (7 x 5 = 35)

1. Cohort and Double blind studies. Discuss them by giving suitable plan of methodology for a scientific study in the prevention of periodontal disease.

2. What are the differences observed between the periodontium of child and an adult?

3. Discuss the factors affecting the gingival pigmentation.

4. Discuss the use of ‘dental floss’ in preventive periodontitis.

5. How would you differentiate between leukemic gingival enlargement and scurbutic gingival enlargement?

6. Describe the alveolar bone disease.

7. Periosteum and Endosteum.

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JUNE 2017

M.D.S DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 onwards)

BRANCH II – PERIODONTOLOGY
PAPER II – ETIOPATHOGENESIS

Q.P. Code: 242456

Time: 3 Hours                               Maximum: 75 Marks

I. Essays:                                                                                                    (2 x 20 = 40)

1. Neutrophil abnormalities and periodontal disease.

2. Describe in detail pathogenesis of Drug Induced Gingival Enlargement.

II. Short Notes:                                                                                       (7 x 5 = 35)

1. Complex periodontal pocket.

2. Role of T cells in periodontal bone loss.

3. Linear gingival erythema.

4. Tissue invading microorganisms in periodontitis.

5. Periodontal disease activity.

6. Epigenetic mechanisms in periodontal disease.

7. Pattern Recognition Receptors (PRR).

******

*******
I. Essays:

1. Factors responsible for the Periodontal failure.

2. Para functional habits and the periodontium.

II. Short Notes:

1. Dental cementum; the dynamic tissue covering of the root – discuss.


3. Discuss the current thinking on the role of nutrition in periodontal Disease.

4. Describe the stability and integrity of periodontal tissue that are influenced by various environmental factors around the tooth.

5. Clinically modified tetracycline.

6. Prognosis.

7. Biofilm as an etiology of periodontal disease.
I. Essays: (2 x 20 = 40)

1. Write in detail about microbiologic aspects of the microbial-host interaction.

2. Define risk factors and write in detail about the categories of risk elements in periodontal diseases.

II. Short Notes: (7 x 5 = 35)

1. Ecological plaque hypothesis.

2. Concept of stress in periodontal disease.

3. Periodontal abcess.


5. Define and classify desqumative gingivitis.

6. Prophyromonas gingivalis.

7. B cell role in periodontitis.

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M.D.S DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 onwards)

BRANCH II – PERIODONTOLOGY
PAPER II – ETIOPATHOGENESIS

Q.P. Code: 242456

Time: 3 Hours                               Maximum: 75 Marks

I. Essays:                                                                                                    (2 x 20 = 40)

1. Enumerate the systemic factors contributing to Periodontal disease.

2. Discuss the role of gram negative bacteria in Etiology of Periodontal disease.

II. Short Notes:                                                                                       (7 x 5 = 35)

1. Iatrogenic factors.

2. Parafunctional habits and periodontium.

3. Role of genetics in periodontics.

4. Theories of calculus formation and mineralization.

5. Advanced glycation products.

6. Factors affecting gingival pigmentation.

7. Effect of smoking on periodontium.

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M.D.S DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 to 2017-2018)

BRANCH II – PERIODONTOLOGY

PAPER II – ETIOPATHOGENESIS

Q.P. Code: 242456

Time: 3 Hours                               Maximum: 75 Marks

I. Essays:
(2 x 20 = 40)


II. Short Notes:
(7 x 5 = 35)

1. Histopathology of infrabony pocket.

2. Viruses in periodontal disease.

3. Similarities between Peri implant mucositis and Gingivitis.


5. Synergistic action of neutrophils and T cells in periodontal disease.


7. Role of AGE in interaction between periodontal disease and diabetes mellitus.
I. Essays:  

(2 x 20 = 40)

1. Describe in detail about HIV and its role in periodontal disease Progression.

2. Describe about Junctional Epithelium and its unique characteristics.

II. Short Notes:  

(7 x 5 = 35)


2. Gingipains.

3. Cessation of Smoking.


5. Cytokines.


7. Toll-like receptors.
M.D.S. DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 onwards)

BRANCH II – PERIODONTOLOGY

PAPER III – CLINICAL PERIODONTOLOGY AND ORAL IMPLANTOLOGY

Q.P. Code: 242457

Time: 3 Hours                          Maximum: 75 Marks

I. Essays:                                                                                                         (2 x 20 = 40)

1. Role of various Growth factors in periodontal therapy.

2. Recent developments in reconstructive periodontal therapy.

II. Short Notes:                                                                                  (7 x 5 = 35)

1. Classification of bone grafting materials.

2. Electrosurgery.

3. Implant-Bone interface.

4. Splints used in periodontal therapy.

5. DNA probes.

6. Root biomodification.

7. Laterally repositioned flap.

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M.D.S. DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 onwards)

BRANCH II – PERIODONTOLOGY

PAPER III – CLINICAL PERIODONTOLOGY AND ORAL IMPLANTOLOGY

Q.P. Code: 242457

Time: 3 Hours Maximum: 75 Marks

I. Essays: (2 x 20 = 40)

1. GCF – As a marker of periodontal destruction – Discuss.

2. Discuss the current concepts as regards the etiology of pre pubertal periodontitis.

II. Short Notes: (7 x 5 = 35)


2. Food impaction in periodontal health.

3. Discuss the rationale and limitation of periodontal therapy during pregnancy.

4. Difference between Pocket depth and attachment level – Your view.

5. EY-YAG Laser in periodontal management.

6. Alendronate – In periodontal therapy.

7. Powered tooth brush in periodontal health.

******
I. Essays:  
(2 x 20 = 40)  
1. Discuss in detail about the ‘Microbial specificity’ with response to periodontal disease.  
2. Discuss the protective component of saliva.

II. Short Notes:  
(7 x 5 = 35)  
1. Discuss the various culture media used in cultivating periodontal microbiota.  
2. Osteointegration in implants.  
3. GCF markers of periodontal destruction.  
4. Compliment activation - its role in the pathogenesis of periodontal disease.  
5. D.N.A Probes.  
6. Periodontal treatment protocol for medically compromised patients.  
7. Ionic tooth brush.
I. Essays:

1. Discuss in detail the management of furcation defects.
2. Explain the various diagnostic aids used in periodontics.

II. Short Notes:

1. Merits and demerits of ultrasonics in periodontal therapy.
2. Maintainance phase after implants.
3. Prognosis.
4. Vestibular extension procedures with its indication.
5. Supportive periodontal treatment.
6. Probiotics.
7. Use of LASERS in periodontics.

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M.D.S. DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 onwards)

BRANCH II – PERIODONTOLOGY

PAPER III – CLINICAL PERIODONTOLOGY AND
ORAL IMPLANTOLOGY

Q.P. Code: 242457

Time: 3 Hours                          Maximum: 75 Marks

I. Essays:                                                                                                         (2 x 20 = 40)

1. Biomarkers of periodontal disease.

2. Factors affecting prognosis of furcation defects.

II. Short Notes:                                                                                  (7 x 5 = 35)

1. Photo dynamic therapy in Periodontics.

2. Piezo surgery in Periodontics.

3. Implant decontamination procedures.


5. Soft tissue allografts in periodontal therapy.

6. Assessment of primary stability in implants.


******
M.D.S. DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 onwards)

BRANCH II – PERIODONTOLOGY

PAPER III – CLINICAL PERIODONTOLOGY AND
ORAL IMPLANTOLOGY

Q.P. Code: 242457

Time: 3 Hours                          Maximum: 75 Marks

I. Essays:                                                                                                         (2 x 20 = 40)

1. Define Periodontal plastic surgery. Mention various pouch and tunnel technique. Write in detail about Zuechellis technique for root coverage procedure.

2. Classify Endo – perio lesions. Write in detail about the treatment considerations of these lesions.

II. Short Notes:                                                                                  (7 x 5 = 35)

1. Periodontal dressing.

2. Diamond Probe.

3. Microdesign of implants.


5. Allografts.


7. Arestin.

******
M.D.S. DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 to 2017-2018)

BRANCH II – PERIODONTOLOGY

PAPER III – CLINICAL PERIODONTOLOGY AND
ORAL IMPLANTOLOGY

Q.P. Code: 242457

Time: 3 Hours                          Maximum: 75 Marks

I. Essays:                                                                                                         (2 x 20 = 40)

1. Ridge augmentation and vertical alveolar ridge defects.

2. Discuss in detail about platform switch implants – indication, contraindication and future modifications.

II. Short Notes:                                                                                  (7 x 5 = 35)

1. Biology of wound healing.

2. Osteoconductive bone craft.

3. Periodontal management of geriatric patients.

4. Occlusal therapy.

5. Salivary markers.

6. BANA test.

7. Periodontal vaccines.

*******
I. Essays: 

1. Write in detail about the periodontal management of HIV – Infected patients.
2. Write in detail about maxillary sinus elevation and its current concepts.

II. Short Notes: 

1. Atridox.
2. EDTA.
3. Host modulation therapy.
4. Low light laser therapy.
5. Collagen membrane.

********
1. (a) Digastric Triangle.
   (b) Falx cerebri.
   (c) Derivatives of first bronchial arch.
   (d) Applied anatomy of maxillary sinus.

2. (a) Cardiac cycle.
   (b) Growth hormone.
   (c) Visual pathway.
   (d) Juxtaglomerular apparatus.

3. (a) Deficiency and toxicity symptoms of fluorides.
   (b) Glucose tolerance test.
   (c) Vitamin K.
   (d) Balanced diet.

4. (a) Classify NSAIDs. Explain four therapeutically useful pharmacological action of Aspirin.
   (b) Write brief notes on Glucocorticoids.
   (c) Explain the pharmacological basis for the following:
      (i) Phenytoim sodium in grandmal epilepsy.
      (ii) Sodium thiopentone as including agent for general anaesthesia.
   (d) Bacterial endocarditis prophylaxis.

5. (a) Define thrombosis. Discuss the pathogenesis of thrombosis formation.
   (b) Define Repair. Describe the process of healing of a surgical wound.
   (c) Briefly write in the modes of spread of tumours.
   (d) Haemochromatosis.

6. (a) Hepatitis B vaccination.
   (b) Define sterilization and disinfection. Mention methods of moist heat sterilization.
   (c) Microbiology of dental caries.
   (d) Write about laboratory diagnosis of pulmonary tuberculosis.
NOVEMBER 2001

[KE 351]

M.D.S. DEGREE EXAMINATION
(New/Revised Regulations)
Part I
Paper I – APPLIED BASIC SCIENCES

Time : Three hours                                                                          Maximum : 180 marks
Answer each subject in a separate answer book.
Answer briefly any THREE short notes in each subject.
All questions carry equal book.

(AATOMY)

1. (a) Inferior alveolar nerve.
    (b) Parotid Gland.
    (c) Maxillary air sinus.
    (d) Intrinsic muscles of Larynx.

(PHYSIOLOGY)

2. (a) Mastication.
    (b) Primary and secondary bone.
    (c) Digestion of proteins.
    (d) Cough reflex.

(BIOCHEMISTRY)

3. (a) Cholecalciferol.
    (b) Mucopolysaccharides.
    (c) Prostaglandins.
    (d) Anaerobic glycolysis.

(PHARMACOLOGY)

4. (a) Adverse effects of Corticosteroids.
    (b) Clinical uses of muscle relaxants.
    (c) Oral sulphonylureas.
    (d) Calcitonin.

(PATHOLOGY)

5. (a) Actinomycosis.
    (b) Granulomatous inflammation.
    (c) Phagocytosis.
    (d) Fat Embolism.

(MICROBIOLOGY)

6. (a) Antibiotic sensitivity test.
    (b) Viral inclusion bodies.
    (c) Disposal of infectious waste.
    (d) Anaphylaxis.

*****
MARCH 2002

M.D.S. DEGREE EXAMINATION
(New/Revised Regulations)
Part I
Paper I – APPLIED BASIC SCIENCES

Time : Three hours
Maximum : 180 marks

Answer each subject in a separate answer book.
Answer briefly any THREE short notes in each subject.
All questions carry equal book.

(AATOMY)
1. (a) Developmental of palate and its anomalies.
   (b) Thyroid Gland.
   (c) Temporo Mandibular joint.
   (d) Taste pathway.

(PHYSIOLOGY)
2. (a) Perception of pain in the mouth.
   (b) Deglutition.
   (c) Adrenal medulla.
   (d) Functions of platelets.

(BIOCHEMISTRY)
3. (a) Citric acid cycle.
   (b) Ptyalin.
   (c) Glucose tolerance test.
   (d) Ascorbic acid.

(PHARMACOLOGY)
4. (a) Thrombolytic drugs.
   (b) Surface analgesics.
   (c) Uses of antiseptics in dentistry.
   (d) Fluorides in dental caries.

(PATHOLOGY)
5. (a) Define and classify embolus.
   (b) Preneoplastic conditions.
   (c) Transfusion reactions
   (d) Healing in bone fracture.

(MICROBIOLOGY)
6. (a) Elisa.
   (b) Microbiology of wound infection.
   (c) Anaerobic culture methods.
   (d) WIDAL test.

******
1. (a) Temporo Mandibular joint.  
   (b) Soft Palate.  
   (c) Motor Speech Area.  
   (d) Maxillary Antery.  

2. (a) Neurohormones.  
   (b) Formation of Lymph.  
   (c) Glycosuria.  
   (d) Functions of Trigeminal Nerve.  

3. (a) Flurosis.  
   (b) Scurvy.  
   (c) Respiratory acidosis.  
   (d) Classification of jaundice.  

4. (a) Drugs in myocardial infarction.  
   (b) Expectorants.  
   (c) Uses of opioids in dentistry.  
   (d) Role of diuretics in hypertension.  

5. (a) Fate of thrombus.  
   (b) Healing in bone fracture.  
   (c) Vascular changes in acute inflammation.  
   (d) Human Papilloma virus and neoplosia.  

6. (a) Sterilization by chemical agents.  
   (b) Laboratory diagnosis of streptococcal infection  
   (c) Serologic markers for HBV infection.  
   (d) Mechanism of drug resistance.  

*****
1. (a) Innervation and muscles of Tongue.  
   (b) Thoracic Duct.  
   (c) Hyoid Arch.  
   (d) Circle of WILLIS.

2. (a) Artificial respiration.  
   (b) Glomerular filtration.  
   (c) Digestion of carbohydrates.  
   (d) Division of Autonomic Nervous System.

3. (a) Hyperkalimea.  
   (b) Cholecalciferol.  
   (c) Vitamin K.  
   (d) Bilirubinemas.

4. (a) Lignocaine.  
   (b) Anti pseudomonal penicillins.  
   (c) Chlorhexidine.  
   (d) Ibuprofen.

5. (a) Endogenous pigments.  
   (b) Acquired Immunity.  
   (c) Healing by second intention.  
   (d) Metaplasia.

6. (a) Toxins of Streptococci.  
   (b) Gaseous Disinfectants.  
   (c) Coagulase test.  
   (d) Pathogenesis of tetanus.
OCTOBER 2003

M.D.S. DEGREE EXAMINATION
(Revised Regulations)

Part I

Paper I – APPLIED BASIC SCIENCES

Time : Two hours
Theory : One hour
M.C.Q : One hour

Maximum : 90 marks
Theory : 30 marks
M.C.Q : 60 marks

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

Answer each subject in a SEPARATE answer book.
Answer briefly any THREE short notes in each subject.
All questions carry equal book.

SECTION A

(ANATOMY) (3 x 5 = 15)

1. (a) Lingual artery.
   (b) Inferior alveolar nerve.
   (c) Spheno mandibular ligament.
   (d) Development of palate.

(PHYSIOLOGY) (3 x 5 = 15)

2. (a) Draw and label a normal E.C.G. Define and describe the different waves of E.C.G.
   (b) Deglutition : Define and describe the different phases of deglutition.
   (c) Define Tubular maximum for Glucose (TMG)
       What is the normal value? Mention the other substances which have Tubular maximum (Tm).
   (d) What is meant by Excitation-contraction coupling? Explain the mechanism.

*****
SECTION B

1. (a) LDH (Lactic acid Dehydrogenase).
    (b) Urea formation in the body.
    (c) Inborn errors in Tyrosine metabolism.
    (d) Hydrogen ion concentration (pH).

2. (a) Lignocaine.
    (b) Parental route of administration.
    (c) Frusemide.
    (d) Oral antifungal agents.

3. (a) Phagocytosis.
    (b) Fate of thrombus.
    (c) Spread of tumours.
    (d) Pathologic calcification.

4. (a) Surface active agents.
    (b) Gram negative bacterial cell wall.
    (c) Human immuno deficiency virus.
    (d) Type III hypersensitivity reaction.
M.D.S. DEGREE EXAMINATION
(Revised Regulations)
Part I
Paper I – APPLIED BASIC SCIENCES

Time : Two hours
Theory : One hours
M.C.Q : One hours
Maximum : 90 marks
Theory : 30 marks
M.C.Q : 60 marks

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

Answer each subject in a SEPARATE answer book.
Answer briefly any THREE short notes in each subject.
All questions carry equal book.

SECTION A

(ANATOMY)                   (3 x 5 = 15)
1.   Structures short notes :
    (a) First pharyngeal arch.
    (b) Functions of temperomandibular joint.
    (c) Circulus arteriosus.
    (d) Innervation of tongue.

(PHYSIOLOGY)                  (3 x 5 = 15)
2.   (a) Effects of platelet deficiency on the bleeding time and clot retraction.
    (b) Role of intralobular ducts in the secretion of saliva.
    (c) Trace the pathway for taste.
    (d) Cardio vascular adjustments in response to severe hemorrhage.
AUGUST 2004

M.D.S. DEGREE EXAMINATION
(Revised Regulations)

Part I

Paper I – APPLIED BASIC SCIENCES

Time : Two hours
Theory : Two hours

Maximum : 60 marks
Theory : 60 marks

Answer each subject in a SEPARATE answer book.
Answer briefly any THREE short notes in each subject.
All questions carry equal book.

SECTION B

(BIOCHEMISTRY) (3 x 5 = 15)

1. (a) Outline the steps of urea cycle add a note on its regulation.
   (b) Describe the steps of gluconeogenesis in liver.
   (c) What are lipoproteins? Describe their composition and functions.
   (d) Define pH and buffer.
       Mention the buffer systems present in plasma, erythrocytes and urine.

(PHARMACOLOGY) (3 x 5 = 15)

2. (a) Lignocaine.
   (b) Atropine sulfate.
   (c) Long acting glucocorticoids.
   (d) Calcium preparations.

(PATHOLOGY) (3 x 5 = 15)

3. (a) Types of shock
   (b) Phagocytosis.
   (c) Pathogenesis of oedema.
   (d) Characteristics of malignancy.

(MICROBIOLOGY) (3 x 5 = 15)

4. (a) Oral thrush.
   (b) Prophylaxis for the control of Hepatitis B virus infection.
   (c) Vincent’s angina.
   (d) VDRL test.

*****
M.D.S. DEGREE EXAMINATION
(Revised Regulations)

Part I

Paper I – APPLIED BASIC SCIENCES

Time : Two hours
Theory : One hour
M.C.Q : One hour

Maximum : 90 marks
Theory : 30 marks
M.C.Q : 60 marks

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

Answer each subject in a SEPARATE answer book.
Answer briefly any THREE short notes in each subject.
All questions carry equal book.

SECTION A

(ANATOMY) (3 x 5 = 15)

1. (a) Hyoglossus muscle and its relations.
(b) Microscopic structure of palatine tonsil.
(c) Pharyngeal arches and its derivatives.
(d) Cavernous sinus.

(PHYSIOLOGY) (3 x 5 = 15)

2. (a) Describe coagulation of blood.
(b) Acromegaly.
(c) Respiratory centres.
(d) Describe pathway for pain.

*****
M.D.S. DEGREE EXAMINATION
(Revised Regulations)
Part I
Paper I – APPLIED BASIC SCIENCES

Time : Two hours  Maximum : 60 marks
Theory : Two hours  Theory : 60 marks

Answer each subject in a SEPARATE answer book.
Answer briefly any THREE short notes in each subject.
All questions carry equal book.

SECTION B

(BIOCHEMISTRY)  (3 x 5 = 15)

1. (a) Use of blood urea in assessment of kidney function.
   (b) Lipid absorption from the intestine.
   (c) Caloric values for carbohydrates, fat and proteins.
   (d) Clinical interpretation of serum cholesterol levels.

(PHARMACOLOGY)  (3 x 5 = 15)

2. (a) Preanaesthetic medication.
   (b) Drug antagonism.
   (c) Sulfonylureas.
   (d) Extended spectrum penicillins.

(PATHOLOGY)  (3 x 5 = 15)

3. (a) Factors involved in delay in wound healing.
   (b) Granuloma.
   (c) Virchow’s triad.
   (d) Cancer suppressor genes.

(MICROBIOLOGY)  (3 x 5 = 15)

4. (a) Autoclave.
   (b) Acute ulcerative gingivitis.
   (c) Common anaerobic infections.
   (d) Modes of transmission of Hepatitis B infection.

******
2. Write short notes on:
   a). Ptyalin
   b). Immunoglobulin
   c). Ascorbic acid
   \( (3 \times 5 = 15) \)

**PHARMACOLOGY**
1. Discuss the pharmacology of anaesthetic drugs used in dental practice.
   \( (15) \)
2. Write short notes on:
   a). Adverse drug reactions
   b). NSAIDs
   c). Haemostatics
   \( (3 \times 5 = 15) \)

**PATHOLOGY**
1. Discuss the pathology of parotid tumours
   \( (15) \)
2. Write short notes on:
   a). Epulis
   b). Cancrum oris
   c). Salivary calculi
   \( (3 \times 5 = 15) \)

**MICROBIOLOGY**
1. Describe in brief the causative agent of AIDS. Discuss the transmission and prevention of HIV infection in dental practice.
   \( (15) \)
2. Write short notes on:
   a). Herpes simplex
   b). Acquired immunity
   c). Vincent's organism.
   \( (3 \times 5 = 15) \)
M.B. 241

M.D. Sr DEGREE EXAMINATION

(New/Revised Regulations):

Part I

APPLIED BASIC SCIENCES

Time: Three hours  Max. marks: 100

Answer All Questions briefly

Answer each subject in separate answer book

ANATOMY

(a) Development of palate and its anomalies

(b) Maxillary air sinus

(c) Schematic representation of eruption and shedding of tooth  

(3x10=30)

PHYSIOLOGY

(a) Regulation of salivary secretion

(b) Functions of leucocytes

(c) Referred pain - definition and mechanism  

(3x10=30)

BIOCHEMISTRY

(a) Citric acid cycle

(b) Factors influencing enzymatic reactions

(c) Basal metabolic rate  

(3x10=30)

PHARMACOLOGY

(a) Objectives of preanaesthetic medication

(b) Beneficial antimicrobial combinations and their clinical utility

(c) Drugs which affect calcium homeostasis  

(3x10=30)

PATHOLOGY

(a) Morphology of malignant cell

(b) Precancerous lesions of oral cavity

(c) Phagocytosis  

(3x10=30)

MICROBIOLOGY

(a) Laboratory diagnosis of diphtheria

(b) Candida albicans

(c) Immunoglobulins  

(3x10=30)
M.D.S. DEGREE EXAMINATION
(Old/New/Revised Regulations)
Part I
Paper I - APPLIED BASIC SCIENCES

Time: Three hours Max. marks: 180

Answer each subject in a separate answer book.
Answer All questions.

Write short notes on the following:

ANATOMY

1. Inferior alveolar nerve
2. Dorsum of tongue
3. Relations and tributaries of the cavernous sinus (3x10=30)

PHYSIOLOGY

4. Extrinsic pathway of blood coagulation
5. Mechanism of referred pain
6. Immune surveillance against cancer (3x10=30)

BIOCHEMISTRY

7. β Oxidation of fatty acids
8. Muco polysaccharides
9. Plasma buffers (3x10=30)
APRIL 1997

K.D.S. DEGREE EXAMINATION
(New/Revised Regulations)

Part I

Paper I - APPLIED BASIC SCIENCES

Time: Three hours

Max. marks: 180

Answer All Questions

Answer each subject in a separate answer book

All questions carry equal marks

Write short notes:

ANATOMY

1. Hypoglossal nerve
2. Parotid gland

PHYSIOLOGY

4. Neural control of respiration
5. Regulation of blood sugar level
6. Haemorrhagic shock.

BIOCHEMISTRY

7. Homopolysaccharides
8. Factors affecting enzyme activity
9. Cholesterol - its chemistry and functions.
APRIL 1998

M.D.S. DEGREE EXAMINATION.
(Old/New/Revised Regulations)
Part I
Paper I — APPLIED BASIC SCIENCES
(Common to all Branches)

Time: Three hours
Maximum: 180 marks

Answer each subject in a separate answer book.
Answer any THREE questions in each subject.
Write briefly on each topic.
All questions carry equal marks.

ANATOMY
1. Nerve supply of tongue.
2. Pterygo palatine ganglion.
3. Articular disc of temporomandibular joint.
4. Infra orbital nerve.

PHYSIOLOGY
5. Mechanism of salivary secretion.
6. Hazards of mismatched blood transfusion.
7. Functions of insulin.
8. Artificial respiration.

BIOCHEMISTRY
10. Anaerobic glycolysis.

11. Absorption of fat.

PHARMACOLOGY
13. Saturation kinetics.
15. Synergistic combination of antimicrobial drugs.
16. Therapeutic uses of alcohol in dentistry.

PATHOLOGY
17. Bleeding time and clotting time.

MICROBIOLOGY
22. C. diptheriae.
23. Dental caries.
24. Type I hypersensitivity reaction
M.D.S. DEGREE EXAMINATION.

PART I

Paper I — APPLIED BASIC SCIENCES

Time Three hours    Maximum 180 mark

Answer each subject in a separate answer book.
Answer briefly any THREE questions in each subject
All questions carry equal marks.

(AнатOMY)
1. Duct of parotid gland.
2. Suprarectal triangle.
3. Intrinsic muscles of the Larynx
4. Inferior alveolar nerve.

(PHYSIOLOGY)
5. Hypothyroidism.
7. Respiratory centres.
8. Heart sounds.

(BIOCHEMISTRY)
11. Cholecalciferol.
12. Oxidative phosphorylation

(PHARMACOLOGY)
14. Indications for Corticosteroid Therapy
15. Oral and parenteral iron preparation, their indications and toxicity.
16. Potassium sparing diuretics.

(PATHOLOGY)
17. Mechanism of thrombus formation
18. Thrombocytopenia.
19. Chemical Carcinogens
20. Phagocytosis.

(MICROBIOLOGY)
23. Discuss the importance of immune complexes in dental disease.
24. Vincent's Angina
M.D.S. DEGREE EXAMINATION.
(New/Revised Regulations)

Part I

Paper I — APPLIED BASIC SCIENCES

Time: Three hours

Maximum: 180 marks

Answer each subject in a separate answer book.

Answer briefly any THREE questions in each Subject.

All questions carry equal marks.

ANATOMY

1. Hypoglossal Nerve.
2. Maxillary air sinus.
3. Cavernous sinus.
4. Pharyngeal pouches.

PHYSIOLOGY

5. Blood pressure and dental extraction.
6. Coagulation factors and dental procedures
7. Referral pain.
8. Cardiac cycle

BIOCHEMISTRY

10. Cholesterol.
11. Classification of jaundice.

PHARMACOLOGY

13. Infective endocarditis prophylaxis
14. Therapeutic use of adrenalin
15. Merits and demerits of Procaine

PATHOLOGY

17. Thyroglossal cyst
18. Carcinoma of the cheek
19. Primary complex

MICROBIOLOGY

Sterilisation of Instruments against AIDS
22. Passive Immunity
23. Toxins produced by staphylococci
24. Diphtheroids.
OCTOBER 2000

M.D.S. DEGREE EXAMINATION.
(Revised Regulations)

Part I

Paper I — APPLIED BASIC SCIENCES

Time: Three hours Maximum: 180 marks

Answer each subject in a separate answer book.

Answer briefly, any THREE questions in each subject.

All questions carry equal marks.

ANATOMY

1. Trigeminal nerve.
2. Ethmoid air sinuses.
4. Lateral pterygoid muscle.

PHYSIOLOGY

5. Cushing syndrome.
6. Physiology of taste sensation.
7. Carotid receptors.
8. Premature beats.

BIOCHEMISTRY

9. LDL—Cholestrol.
10. Respiratory acidosis.
12. Lingual lipase.

PHARMACOLOGY

13. Cipro floxasin.
14. Local anaesthesia in dental procedures.
15. Antibiotic prophylaxis of Rheumatic fever.
16. Beta blockers.

PATHOLOGY

17. Healing by first intention.
18. Leukoplakia.
19. Cavernous sinus thrombosis.
20. Causes of edema.
OCTOBER 2000

MICROBIOLOGY


22. Anaphylactic reaction.

23. Dental caries.

24. Tetanus and its prophylaxis.
I. Essay:

1. Discuss the role of ‘non steroidal anti inflammatory drugs’ in the management of periodontal diseases.

II. Short Essays:

1. Mast cells.
2. Dentine Hyersensitivity.
3. Proinflammatory cytokines.
4. Pain pathway from teeth to brain.
5. Role of vitamin C in health and disease.
6. Vasoconstrictors used in local anesthesia.
I. Essay:  
1. Discuss the role of saliva as a biomarker for periodontal disease.

II. Short Essays:  

1. Ultrastructure of cementum.  
2. Bone remodelling.  
3. GCF.  
4. Antimicrobial peptides.  
5. Antioxidants.  
6. Interleukins.
M.D.S DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 onwards)

BRANCH II – PERIODONTOLOGY

PAPER I – APPLIED ANATOMY, PHYSIOLOGY, BIOCHEMISTRY, PATHOLOGY AND PHARMACOLOGY

Q.P. Code: 242455

Time: 3 Hours                               Maximum: 75 Marks

I.  Essay:                                                                                                     (1 x 15 = 15)

1. Describe in detail about the wound healing and specify the periodontal wound healing.

II. Short Essays:                                                                                     (6 x 10 = 60)

1. Oxygen toxicity.

2. Describe erythropoiesis and factors affecting erythropoiesis.


4. Discuss the bio-chemical importance of fat – soluble vitamin.

5. Discuss the various ‘liver function test’.

6. Anti oxidants.

*******
I. Essay: (1 x 15 = 15)

1. Describe in detail Tetracycline and its relevance to the Periodontium.

II. Short Essays: (6 x 10 = 60)

1. Biological width and its relevance.
2. Necrosis and apoptosis.
3. Mandibular nerve.
4. Use of anaesthetic agents in Periodontics.
5. Resolution of inflammation.
6. Reactive oxygen species and its relevance to the periodontium.
I. Essay:  
1. Metronidazole and its relevance to Periodontics.

II. Short Essays:  
1. Antioxidants.
2. Long junctional epithelium.
3. Fibrosis and its relevance to the periodontium.
5. Bundle bone.
6. Proteoglycans in the periodontium.
I. Essay:

1. Define pain. Explain the pain pathway and trace the pain pathway for periodontitis.

II. Short Essays:

1. Glucose tolerance test.
2. Ciprofloxin.
3. Cohort study.
4. Growth factors in wound healing.
5. Serological markers for Hep-B virus (HBV) infection.
6. Temporo-mandibular joint (TMJ).
M.D.S DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 to 2017-2018)

BRANCH II – PERIODONTOLOGY

PAPER I – APPLIED ANATOMY, PHYSIOLOGY, BIOCHEMISTRY, PATHOLOGY AND PHARMACOLOGY

*Q.P. Code: 242455*

Time: 3 Hours                               Maximum: 75 Marks

I. Essay:                                                                                                     (1 x 15 = 15)


II. Short Essays:                                                                                     (6 x 10 = 60)

1. Discuss Clavulanic Acid.
2. Role of Vitamin C in Periodontium.
3. Parotid Duct.
5. Mechanism of Blood Clotting.
6. Write a note about Methicillin-resistant Staphylococcus Aureus.

**********
I. Essay: (1 x 15 = 15)

1. Describe in detail about Pathophysiology, Prevention of Type II Diabetes Mellitus and its two relationship with Periodontal Disease.

II. Short Essays: (6 x 10 = 60)

1. Role of Probiotics in Periodontal Health.
2. Local and systemic application of Metronidazole.
3. Discuss about Coagulation Defects.
4. Explain about Maxillary Sinus.
5. Write briefly about Anaphylaxis.
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
M.C.Q. : Twenty minutes

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 x 5 = 30)
   (a) Local drug delivery system
   (b) Antiplaque agent
   (c) Interleukin
   (d) Autoclave
   (e) Functions of insulin
   (f) Spread of tumours.
SEPTMBER 2007


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
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:

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


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 x 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 : (3 x 10 = 60)

1. Implant surface characteristics (Microdesign).
3. Orofacial pain.
4. Pharmacological agents affecting bone resorption.
5. Microbial tests in periodontal diagnosis.
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.
I. Essay questions : 

1. Discuss the role of diet in health and disease of periodontium.

2. Describe the process of acute inflammation.

II. Write short notes on : 

1. Local Anaesthetics.

2. Periodontal indices.

3. Collagen.

4. Gingival blood supply.

5. Facial nerve.


*****
March 2010

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)


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.
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.
4. Branches of Biostatistics, collection of data and sampling.
5. Drug reactions and interactions.
6. Composition of blood.

*****
October 2011

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

Q.P. Code : 242405

Time : 3 hours
(180 Min)

Answer ALL questions in the same order.

I. Elaborate on :

<table>
<thead>
<tr>
<th></th>
<th>Pages</th>
<th>Time</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Gingival crevicular fluid.</td>
<td>6</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>2. Growth Factors.</td>
<td>6</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>3. Hemi desmosomes.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>4. Pain pathways of periodontal ligament.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>5. Pro inflammatory mediators.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>6. Aggressive periodontitis.</td>
<td>6</td>
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<td>10</td>
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<tr>
<td>7. Local drug Delivery.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>8. Bio film –The different therapeutic target.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>9. Anti Oxidants.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>10. Regenerative concepts applied to furcations.</td>
<td>6</td>
<td>18</td>
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</tbody>
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******
April 2012

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.

<table>
<thead>
<tr>
<th>Pages</th>
<th>Time</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max.</td>
<td>Max.</td>
<td>Max.</td>
</tr>
</tbody>
</table>

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

******
1. Facultative anaerobes of oral cavity.  

2. Apoptosis.  


4. Effect of growth factors in wound healing.  

5. Oral Thrush.  

6. Connective tissue fibres of gingival.  


8. Metronidazole.  


10. Gingival pigmentation.
1. Classify ulcerative lesions of the oral cavity and describe the clinical features.

2. Biological width.

3. Lactic Acid Dehydrogenase.

4. Basal metabolic rate.


6. Antimicrobial combinations and their clinical utility.

7. Vitamin K.

8. Define Repair. Describe the process of healing of a surgical wound.


10. Microbial tests in periodontal diagnosis.

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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 :

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

*******
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.
10. Wound healing.
MDS (PERIODONTOLOGY)-FINAL YEAR ANNUAL EXAMS; APRIL-MAY 2019
[SUB.: APPLIED ANATOMY, PHYSIOLOGY, BIOCHEMISTRY, PATHOLOGY AND PHARMACOLOGY; PAPER CODE: 02070301]

Time: 03:00 Hrs.                                                                 Max. Marks: 75

Instructions:-
1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

Long Answer of the following questions (Q.No.1 & Q.No.2):-

Q. 1 Describe the development of periodontium. Discuss the blood and nerve supply of periodontal ligament?  
(20)

Q. 2 Discuss the components of blood. Discuss the role of each cell?  
(20)

Q. 3 Write short notes on: -  
(7x5=35)

a) Blood pressure.
b) Culture media and methods of culturing.
c) Classification of local anesthetics.
d) Disclosing agents.
e) Tests of significance.

*****************************************************************************
Roll No. ____________________

MDS (PERIODONTOLOGY)-FINAL YEAR ANNUAL EXAMS; APRIL-MAY 2019
[SUB.: ETIOPATHOGENESIS; PAPER CODE: 02070302]

Time: 03:00 Hrs. Max. Marks: 75

Instructions:-
1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt. in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

Long Answer of the following questions (Q.No.1 & Q.No.2):-

Q. 1 Progression models & theories of Periodontal diseases, with specific emphasis on Random Burst Model. (20)

Q. 2 Host – bacterial interaction in periodontal diseases. Elaborate on Virulence factors. (20)

Q. 3 Write short notes on: - (5x7=35)
   a) Specific v/s Non Specific Plaque hypothesis.
   b) Clinical & radiological features of Trauma from Occlusion.
   c) Radius of action.
   d) Gingipain.
   e) Genetic Syndromes & periodontal Diseases.

************************************************************************************
Roll No. ___________________

MDS (PERIODONTOLOGY)-FINAL YEAR ANNUAL EXAMS; APRIL-MAY 2019
[SUB.: CLINICAL PERIODONTOLOGY AND ORLA IMPLANTOLGY]
(PAPER CODE: 02070303)

Time: 03:00 Hrs. Max. Marks: 75

Instructions:-
1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

Long Answer of the following questions (Q.No.1 & Q.No.2):-

Q. 1 Classify gingival recession. Discuss in detail the techniques employed for gingival augmentation coronal to the recession. (20)

Q. 2 Discuss in detail various advances in Radiographic and microbiologic diagnostic techniques. (20)

Q. 3 Write short notes on:-
   a) Coronoplasty
   b) Chemical plaque control agents.
   c) Osteoimmunology in relation to periodontology.
   d) Apically displaced flap: Indications and procedure.
   e) Role of Growth Factors in Periodontal Regeneration. (5x7=35)

******************************************
Write essay on any one: - (75)

Q. 1 Advances in regenerative periodontal therapy.

OR

Current research in diagnostic methods for assessing periodontal destruction.

*******************
Instructions:
1. Write Roll No. on the Question Paper.
2. Before answering the question paper, candidates should ensure that question paper provided to them is correct. Complaints in this regards, if any, should be made to the Invigilator/Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the examinations. No complaint in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each.
4. Draw the diagram wherever required.

1. Discuss attached gingival and its significance in Periodontal Health and Disease. (20)

2. Describe the mechanism of blood clotting and enumerate the various clotting and bleeding disorders. (20)

3. Write notes on :
   (a) Role of Vitamin C in Periodontal Health.
   (b) Test of Significance.
   (c) Role of Tetracycline in management of periodontal diseases.
   (d) Normal Oral Microflora and its role in Periodontal Health.
   (e) Role of Neutrophils in Periodontal Health. (5x7=35)
Instructions:
1. Write Roll No. on the Question Paper.
2. Before answering the question paper, candidates should ensure that question paper provided to them is correct. Complaints in this regards, if any, should be made to the Invigilator/Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the examinations. No complaint in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each.
4. Draw the diagram wherever required.

1. Discuss the role of genetic factors in the pathogenesis of periodontal disease.  (20)

2. Discuss Periodontitis as risk factor for cardiovascular diseases.  (20)

3. Write short notes on :-  
   (a) Current concept on immunological aspect of periodontal diseases.  
   (b) Aggregatibacter actinomycetemcomitans.  
   (c) Neutrophils in Periodontal health and disease.  
   (d) Critically evaluate AAP 1999 classification of Periodontal Diseases.  
   (e) Role of Viruses in etiology of periodontal disease.  
   (5x7=35)
Instructions:
1. Write Roll No. on the Question Paper.
2. Before answering the question paper, candidates should ensure that question paper provided to them is correct. Complaints in this regards, if any, should be made to the Invigilator/Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the examinations. No complaint in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each.
4. Draw the diagram wherever required.

Long Answer of the following questions [Q.1 & Q.2]

1. Discuss in detail the process of Osseointegration and reason of its failure. (20)

2. Discuss various techniques to increase width of attached gingival. (20)

3. Write short notes on :-
   (a) Current status of Local Drug Delivery in treatment of periodontitis
   (b) Host Modulation Therapy
   (c) Ortho – Perio interrelationship
   (d) Rationale for using flaps for pocket therapy
   (e) Periodontal treatment protocol for medically compromised patients (5x7=35)
MDS – FINAL YEAR EXAMINATION, JUNE/JULY 2016
Course: Periodontology
[Sub: Essay; Paper Code: 02070104]

Time: 03 Hours
Max. Marks: 75

Instructions:
1. Write Roll No. on the Question Paper.
2. Before answering the question paper, candidates should ensure that question paper provided to them is correct. Complaints in this regards, if any, should be made to the Invigilator/Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the examinations. No complaint in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each.
4. Draw the diagram wherever required.

Write essay on any one

1. Tissue engineering in periodontics.

OR

Salivary biomarkers for periodontal disease.

******************
I. Elaborate on:  

1. Local Anesthetics.  
2. Giant Cell.  
3. Functions of Insulin.  
4. Discuss the role of fat soluble vitamins in health and disease.  
5. Pharmacological agents affecting bone resorption.  
7. Functions of Periodontal ligament.  
8. Discuss antigen – antibody reactions  
10. Lactic acid dehydrogenase.  

**********
M.D.S. DEGREE EXAMINATION.
(Revised Regulations)
Branch II — Periodontics
(For candidates admitted from the Academic year 2004–05 onwards)
Paper III — DIAGNOSIS, TREATMENT, PREVENTIVE PERIODONTOLOGY AND IMPLANTOLOGY

Time: Three hours
Theory: Two hours and forty minutes
M.C.Q.: Twenty minutes

Maximum: 100 marks
Theory: 80 marks
M.C.Q.: 20 marks

Answer ALL questions.
Draw suitable diagrams wherever necessary.

I. Essay questions:

(1) Discuss the significance of maintenance care in the treatment of periodontal therapy. (20)

(2) Evaluate the role of antibiotics in periodontal disease. (15)

(3) Discuss Root biomedication. (15)

II. Short notes:

(a) Diagnosis of periodontal breakdown around an implant.

(b) D.N.A. probes.

(c) Mechanism of action of chlorhexidine as an antiplaque agent.

(d) Classify the different types of splints in periodontal therapy.

(e) Methods of pocket eradication procedures.

(f) Classify brushing techniques.
II. Write short notes on:

(a) Periodontal probes.
(b) Ultrasonic scalers.
(c) Collagen membranes.
(d) Lipoxins.
(e) Full mouth disinfection.
(f) The modified Widman flap.

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:

1. Describe the role of bone grafts in periodontal regeneration. (20)

2. Discuss chemical plaque control in detail. (15)

3. Describe the process of osseointegration and the reasons for its failure. (15)
MARCH 2008


M.D.S DEGREE EXAMINATION.

(Revised Regulations)

Branch II — Periodontics

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

Paper III — DIAGNOSIS, TREATMENT, PREVENTIVE PERIODONTOLOGY AND IMPLANTOLOGY

Q.P. Code : 242407

Time : Three hours Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

I. Essay : \(2 \times 20 = 40\)

1. Discuss the current status of local drug delivery in the treatment of periodontitis.

2. Discuss in detail periodontal risk assessment.

II. Short notes : \(6 \times 10 = 60\)

1. Prognosis.

2. Ultrasonic instruments.

3. Tissue engineering.

4. Occlusal therapy.

5. Free gingival craft.

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II – PERIODONTICS

(For Candidates admitted from 2004-2005 onwards)

Paper III – DIAGNOSIS, TREATMENT, PREVENTIVE PERIODONTOLOGY AND IMPLANTOLOGY

Q.P. Code : 242407

Time : Three hours       Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

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

1. Define and classify furcation Involvement. Describe the different treatment options for grade II furcation involvement in mandibular molars.

2. Discuss the treatment plan for the localized Gingival Recession in mandibular central incisor. Write a note on creeping attachment.

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

1. Periodontal treatment protocol for medically compromised patients.
2. Ionic Tooth Brush.
3. Tarnow’s Technique.
4. Tunnelling in periodontal therapy.
5. Local drug delivery system.
March 2009

M.D.S. DEGREE EXAMINATION
Branch II – PERIODONTOLOGY
(Revised Regulations)
(For Candidates admitted from 2004 - 2005 onwards)
Paper III – DIAGNOSIS, TREATMENT, PREVENTIVE PERIODONTOLOGY AND IMPLANTOLOGY

Q.P. Code : 242407

Time : Three hours Maximum : 100 marks

Answer ALL questions
Draw suitable diagram wherever necessary

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

1. Plaque control is the cornerstone of periodontal health. Substantiate.
2. Discuss the surgical techniques to increase the width of the attached gingiva.

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

1. EDTA.
2. Local drug delivery.
3. Distraction osteogenesis.
4. Periodontal dressings.
5. Management of grade III furcation involvement.

*****
I. Essay questions :

1. Discuss the role of osseous grafts in periodontal regeneration.
2. Discuss the significance of maintenance care in periodontal therapy.

II. Write short notes on :

1. Laterally displaced flap.
2. Full mouth disinfection.
4. Anti calculus agents.
5. Chemically modified tetracyclines.
6. Acellular dermal matrix allograft.

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

   1. Describe the stages of Bone healing and Osseointegration in implant – cell kinetics and tissue remodelling.

   2. Describe biologic implication and guide line for the use of antibiotics in periodontal therapy.

II. Write short notes on :  
   (6 x10 = 60)

   1. Photo dynamic periodontal therapy.

   2. Systematic approach for diagnosis of desquamative gingivitis.


   5. Periodontal treatment protocol for medically compromised patients.

   6. Micro design of implant surface.

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<table>
<thead>
<tr>
<th>Questions</th>
<th>Pages</th>
<th>Time</th>
<th>Marks</th>
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<tbody>
<tr>
<td>1. Implant stability.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>2. Local antimicrobial therapy.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>3. Explain the rationale for using flaps for pocket therapy.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>4. Enumerate the preventive procedure for plaque control.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>5. A typical periodontal disease.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>6. Explain laser gingivectomy.</td>
<td>6</td>
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<tr>
<td>7. Socket grafting and alveolar ridge preservation.</td>
<td>6</td>
<td>18</td>
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<td>8. Biological side effects of pack.</td>
<td>6</td>
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<td>10</td>
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<tr>
<td>9. Periodontal splints.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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<tr>
<td>10. Evaluation of occlusal forces on the periodontal disease.</td>
<td>6</td>
<td>18</td>
<td>10</td>
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</tbody>
</table>
April 2012

M.D.S. DEGREE EXAMINATION

BRANCH II – PERIODONTOLOGY

PAPER III – DIAGNOSIS, TREATMENT, PREVENTIVE PERIODONTOLOGY AND IMPLANTOLOGY

Q.P. Code : 242407

Time : 3 hours (180 Min)  Maximum : 100 marks

Answer ALL questions in the same order.

1. Gingival augmentation procedures.  7  18  10
2. Factors affecting the clinical outcomes of GTR infurcations.  7  18  10
3. Influence of mechanical debridement on subgingival biofilm.  7  18  10
4. Self performed plaque control measures.  7  18  10
5. Minimally invasive surgical technique.  7  18  10
6. Bone grafting materials for regenerative procedures.  7  18  10
7. Marginal tissue recession and orthodontic treatment.  7  18  10
8. Classification and diagnosis of periodontal osseous defects.  7  18  10
9. Periodontal vaccines – future perspectives.  7  18  10
10. Role of matrix metalloproteinases in the pathogenesis of periodontal diseases.  7  18  10
1. Use of antiseptics in periodontal therapy. 7 18 10
2. Root surface instrumentation. 7 18 10
3. Post operative pain control in periodontal therapy. 7 18 10
4. Distal wedge procedures. 7 18 10
5. Regeneration of furcations defects. 7 18 10
6. Vehicles for the delivery of chemical agents. 7 18 10
7. Re-osseointegration. 7 18 10
8. Microsurgical techniques in periodontics. 7 18 10
9. Compare the clinical outcome of surgical access therapy to non surgical therapy. 7 18 10
10. Detection, diagnosis and treatment of malodour. 7 18 10

******
1. Pre-treatment evaluation in implant therapy-discuss.

2. Describe the methods used for pocket therapy.

3. Gingivectomy by electrosurgery.

4. Treatment of maxillary furcation.

5. Tissucol


8. Disclosing agents.

9. Discuss the third generation periodontal regeneration therapy.

10. Limitation of radiographic diagnosis.

******
I. Elaborate on : (10 x 10 = 100)

1. Biologic perceptive of antibiotics in Implants
2. Smoking – Effects on periodontal surgical procedures
3. Laterally repositioned Flap
4. Anti calculus Agents
5. Crown Lengthening
6. Esthetic surgeries
7. Periodontal Dressing
8. Grade 3 Furcation management
9. EDTA
10. Altered chemotaxis in Aggressive periodontitis.

******
1. Trauma from Occlusion.
2. EDTA.
4. Prognosis.
5. Phase 4 therapy in periodontics.
6. Root bio modification.
7. Peri Implantitis.
8. Photodynamic therapy.
9. Manifestations of skin lesions in periodontium.
10. Micro design of Implants.
1. Papilla preservation techniques – discuss.
2. Host modulation therapy.
4. Alloderm.
5. Elaborate on DNA probes.
6. Role of radiographs in periodontal diagnosis.
7. Periodontal splints.
8. Chlorhexidine.
9. Diagnosis and management of Halitosis.
10. Root conditioners.

******
1. Local drug delivery.

2. Discuss the techniques involved in surgical de-epithelialisation.

3. Insulin like growth factor.

4. Role of antibiotics in generalized aggressive periodontitis.

5. Discuss the link between periodontal diseases and cardio vascular system.


7. Discuss-ortho perio inter relationship.

8. Anti calculus agents.


10. Food impaction.

*******
2. Lasers in management of periodontal diseases.
3. Reconstructive surgery for implant site development.
4. Treatment consideration of endodontic – periodontic lesions.
5. Distal molar surgery.
7. Tissue engineering.
8. Types and benefits of power driven instruments.
9. Discuss the failures in periodontal surgery.
10. Local delivery of antimicrobial agents in periimplantitis/ mucositis.

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

(Revised Regulations)

Branch II — Periodontics

Paper IV — RECENT ADVANCES IN PERIODONTICS

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

Time: Three hours  Maximum: 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

\[ 4 \times 25 = 100 \]

1. Discuss the Viral Etiology of periodontal diseases?

2. Elaborate on the Genetic markers for periodontal diseases.

3. Discuss the basic principles of Tissue Engineering and its potential applications in periodontal regeneration.

4. Describe the role of Lasers in periodontal therapy.
SEPTEMBER 2007


M.D.S. DEGREE EXAMINATION.
(Revised Regulations)
Branch II — Periodontics
(For candidates admitted from the Academic Year 2004–05 onwards)

Paper IV — RECENT ADVANCES IN PERIODONTICS

Time : Three hours Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

\[4 \times 25 = 100\]

1. Describe in detail the significance of periodontal diseases in the etiology of preterm low birth weight. (25)

2. Critically analyze the statement “Guided tissue regeneration with barrier membranes is not a total solution for periodontal reconstitution”. (25)

3. Discuss the relevance of gingival crevicular fluid assays in periodontal diagnosis. (25)

4. Discuss the current status of periodontal splint. (25)
MARCH 2008


M.D.S. DEGREE EXAMINATION.
(Revised Regulations)

Branch II — Periodontics

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

Paper IV — RECENT ADVANCES IN PERIODONTICS

Q.P. Code : 242408

Time : Three hours Maximum : 100 marks

Answer ALL questions.

Draw Diagram wherever necessary.

Write Essay question :

(4 × 25 = 100)

1. Describe the advanced diagnostic aids used in periodontics.

2. Critically evaluate the current status of bone grafts in periodontal regeneration.

3. Discuss the role of host modulation agents in periodontal therapy.

4. Discuss the role of neutrophils in periodontal health and disease.
I. Essay questions : (4 X 25 = 100)

1. Genetic studies in Periodontology.

2. Discuss the scope and limitations of ‘Periodontal Microsurgery’.

3. Describe in detail the causes of failure of osscointegration of dental implants

4. Discuss the role of gingival crevicular fluid (G.C.F) in periodontal health and disease.
March 2009

M.D.S. DEGREE EXAMINATION

Branch II – PERIODONTOLOGY

(Revised Regulations)

(For Candidates admitted from 2004 - 2005 onwards)

Paper IV – RECENT ADVANCES IN PERIODONTICS

Q.P. Code : 242408

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :

(4 x 25 = 100)

1. Tissue engineering – potential applications. Discuss.
2. Immediate implants. Discuss.
3. Discuss recent advances in ultrasonic scaler technology.
4. Discuss photodynamic therapy.
I. Essay questions : (4 x 25 = 100)

1. Periodontal vaccines – Scope. Discuss.
2. Discuss periodontal micro surgery.
I. Essay questions :  

1. Discuss about Anti oxidants. 
2. Discuss healing following dental implant placement. 
3. Discuss lasers in periodontal therapy. 
4. Periodontal disease and pre-term labour. Discuss. 

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M.D.S. DEGREE EXAMINATION
BRANCH II – PERIODONTOLOGY
PAPER IV – RECENT ADVANCES IN PERIODONTICS

Q.P. Code : 242408

Time : 3 hours
(180 Min)

Answer ALL questions in the same order.

I. Elaborate on :

<table>
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<tr>
<th>Pages</th>
<th>Time</th>
<th>Marks</th>
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</thead>
<tbody>
<tr>
<td>(Max.)</td>
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<tr>
<td>1. Evidence-based periodontal therapy.</td>
<td>15</td>
<td>45</td>
</tr>
<tr>
<td>2. Stem cells in periodontal regeneration.</td>
<td>15</td>
<td>45</td>
</tr>
<tr>
<td>3. Lasers in periodontal therapy - discuss.</td>
<td>15</td>
<td>45</td>
</tr>
<tr>
<td>4. Current concepts in periodontal health in interdisciplinary dentistry.</td>
<td>15</td>
<td>45</td>
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</tbody>
</table>

******
1. Role of innate immunity in periodontal ligament and the
   significance of Toll-like receptors in it.  
   18 45 25

2. Nano technology in periodontics.  
   18 45 25

3. Current concepts in microbial specificity in biofilm.  
   18 45 25

4. Imaging modalities for implant placement and current
   trends in it.  
   18 45 25

******
1. Tissue Engineering is the Potential application –Discuss. 18 45 25

2. Resolution of Inflammation is the Treatment of Periodontal disease –Discuss. 18 45 25

3. Lasers in Periodontics. 18 45 25

4. Osteo integration and the stages of bone healing in Delayed Implants. 18 45 25

*******
1. Periodontal regeneration- a focus on growth factors.


3. Application of ultrasound in periodontics.


*****
I. Elaborate on:

1. Role of antigen presenting cells in periodontal disease progression.

2. Growth factors in periodontal therapy.

3. Clinical considerations of Biomarkers in GCF.

4. Photo dynamic therapy in periodontics

(4 x 25 = 100)
1. Maxillary sinus elevation and bone augmentation – Current concepts.

2. Comparison of the microbiological features of chronic and aggressive periodontitis.

3. Critically evaluate reconstructive surgical technique.

4. Systemic administration of antibiotics in periodontal therapy.

*******
1. Discuss periodontal vaccines.


3. Discuss periodontal regeneration – A focus on growth factor.

4. Role of stem cells in periodontal therapy.

*******
1. Discuss the role of Evidence Based Approach in diagnosis and treatment of periodontal diseases.

2. Role of photodynamic therapy in periodontal diseases.

3. Discuss in detail – Implants – A periodontist perspective.

4. Impact of tissue engineering in periodontal therapy.
1. Relationship between periodontal disease and diabetes mellitus, an Asian perspective.


3. Rationale for sedation during periodontal and implant surgical procedures and guidelines.

4. Recent advances in radiographic assessment in periodontal diseases.

******
APRIL 2001

[KD 359]

M.D.S. DEGREE EXAMINATION.

Branch II — Periodontics
Part II

Paper IV — ESSAY WITH SPECIAL REFERENCE TO CURRENT TRENDS IN PERIODONTOLOGY

Time: Three hours                Maximum: 100 marks

1. Write an essay on:
   (a) Periodontitis is an infectious disease. Elucidate the statement with recent concepts.

   Or

   (b) Merits and demerits of advanced diagnostic aids in periodontics.
[KE 359]

M.D.S. DEGREE EXAMINATION.
(Revised Regulations)
Branch II — Periodontia
Part II
Paper IV — ESSAY WITH SPECIAL REFERENCE TO
CURRENT TRENDS — PERIODONTOLOGY

Time: Three hours  Maximum: 100 marks

Write an essay on:

1. Critically evaluate the healing following periodontal therapy.

Or

2. Local drug delivery of antibiotics can replace systemic administration in periodontal management — Discuss.
MARCH 2002

[KG 359]

M.D.S. DEGREE EXAMINATION

(Revised Regulations

Branch II — Periodontics

Part II

Paper IV — ESSAY WITH SPECIAL REFERENCE TO CURRENT TRENDS IN PERIODONTOLOGY

Time: Three hours Maximum: 100 marks

1. Write an essay on:

   (a) Periodontal disease may be considered as a public health problem; what steps would you take to prevent it from public health aspect.

   Or

   (b) Role of SPLINTS in periodontal therapy.
M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch II — Periodontics

Part II

Paper IV — ESSAY WITH SPECIAL REFERENCE TO CURRENT TRENDS IN PERIODONTOLOGY

Time: Three hours  Maximum: 100 marks

1. Write an essay on:

   (a) Periodontal disease as a risk factor for systemic diseases — Discuss.

   Or

   (b) Describe in detail the role of implants in periodontal therapy.