

APRIL 2001

[KD 360]

M.D.S. DEGREE EXAMINATION

Branch III — Conservative Dentistry

Part II

**Paper I — PRINCIPLES AND PRACTICE OF
OPERATIVE DENTISTRY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss the anatomical aspects of occlusion, as related to restorative dentistry. (25)
 2. Critically review the concept of resistance and retention form of restoration in light of advanced restorative material. (25)
 - 3 Write briefly on : (5 × 10 = 50)
 - (a) Reinforced restorations.
 - (b) Dentin hypersensitivity
 - (c) Biologic width.
 - (d) Sprue pin.
 - (e) Bevels.
-

NOVEMBER 2001

[KE 360]

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Part II

**Paper I — PRINCIPLES AND PRACTICE OF
OPERATIVE DENTISTRY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Analyse the forces acting on cast restorations and methods adapted to ensure the retention and stability of the same. (25)
 2. Enumerate the advances in the methods for diagnosing coronal caries and add a note on developments in Radiographic diagnosis of Dental caries. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Separators
 - (b) Laboratory investigations of Dental caries
 - (c) Contact point restoration
 - (d) Types and Role of Matrices
 - (e) Bevels in tooth preparations.
-

[KG 360] MARCH 2002

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Part II

Paper I — PRINCIPLES AND PRACTICE OF
OPERATIVE DENTISTRY

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss the biomechanics of pin and post retained restorations. Describe the various methods of stress analysis. (25)
 2. Discuss in detail the biological principles of restorative procedures. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Smear layer in endodontics
 - (b) Posterior composite resins.
 - (c) Dentin bonding agents.
 - (d) Fillers in composite resins.
 - (e) Caries vaccine.
-

SEPTEMBER 2002

[KH 360]

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Part II

Paper I — PRINCIPLES AND PRACTICE OF
OPERATIVE DENTISTRY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the role of acid etching and dentin bonding agents in adhesive dentistry. (25)
2. Critically analyse cavosurface treatment for various restorations. (25)

3. Write briefly on : (5 × 10 = 50)

- (a) Gingival tissue management
 - (b) Pin retained amalgam restorations
 - (c) High speed in restorative dentistry
 - (d) Soldering and cementation
 - (e) Secondary caries.
-

APRIL 2003

[KI 360]

Sub. Code : 2321

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Part II

**Paper I — PRINCIPLES AND PRACTICE OF
OPERATIVE DENTISTRY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Critically analyse the factors responsible for distortion of MOD Inlay Wax pattern. (25)
 2. What are Noncarious disfigurement of teeth? Critically evaluate the different materials and techniques used in restoring cervical abrasion. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Defects in casting.
 - (b) Mercury toxicity.
 - (c) Structure of a Hand piece.
 - (d) Effective depth of dentin.
 - (e) Hand cutting instruments.
-

OCTOBER 2003

[KJ 360]

Sub. Code : 2321

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — CONSERVATIVE DENTISTRY

Part II

Paper I — PRINCIPLES AND PRACTICE OF
OPERATIVE DENTISTRY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and forty
minutes

Theory : 80 marks

M.C.Q. : 20 minutes

M.C.Q. : 20 marks

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

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Write Essay :

(2 × 15 = 30)

1. Minimal invasive dentistry. (MID) Describe in detail.
2. How will you manage a case of Ellis C/III fracture of maxillary central incisor with aesthetic restorative material.

3. Write short notes :

(10 × 5 = 50)

- (1) Failure of amalgam restorations.
- (2) Total etch technique.
- (3) Smear layer and bonding.
- (4) Air abrasion.
- (5) Pin retained restorations.
- (6) Saliva and dental caries.
- (7) Advances in composites.
- (8) Curing Lights for composites.
- (9) Different Sandwich techniques.
- (10) Define micro leakage — What are the clinical implications.

APRIL 2004

[KK 360]

Sub. Code : 2321

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Part II

Paper I — PRINCIPLES AND PRACTICE OF
OPERATIVE DENTISTRY

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.

A. Essay Questions :

(2 × 15 = 30)

(1) Discuss the various Non-carious tooth defects. Write in detail on Etiology, Diagnosis and Management of these conditions.

(2) Define Inlay. What are the indications and contra indications of cast restaration. Write in detail about tooth preparation for Class II Cast Metal Inlay.

B. Short notes :

(10 × 5 = 50)

- (1) Pin Retained Restorations.
 - (2) Management of soft tissue during Restorative Procedures.
 - (3) Rubber dam Isolation.
 - (4) Factors affecting Future Demands for operative dentistry.
 - (5) Etiology and management of Root caries in geriatric Patients.
 - (6) Instrument graps.
 - (7) Recent methods of sterilization and how will you monitor.
 - (8) Evolution of Rotary Equipment.
 - (9) Matrices for C II, C III, C V Restoration.
 - (10) Intermediary Bases.
-

AUGUST 2004

[KL 360]

Sub. Code : 2321

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry.

Part II

**Paper I — PRINCIPLES AND PRACTICE OF
OPERATIVE DENTISTRY**

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 Questions.

(2 × 15 = 30)

(1) Write in detail about dentin bonding agents and their critical significance in the adhesion of restorative materials to tooth.

(2) Discuss principles of retention with respect to various restorative materials.

II. Short notes on :

(10 × 5 = 50)

- (a) CAD/CAM techniques for inlays.
- (b) Marginal termination of tooth preparations to receive cast restoration.
- (c) Matrices for composite restorations.
- (d) Non-conventional methods for carries removal.
- (e) Management of deep carious lesion.
- (f) Disadvantages of vital bleaching.
- (g) Management of hypersensitive dentin.
- (h) Tooth preparation for indirect porcelain veneers.
- (i) Causes of marginal ridge fractures in amalgam and methods of prevention.
- (j) Maryland bridges.

FEBRUARY 2005

[KM 360]

Sub. Code : 2321

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Part II

**Paper I — PRINCIPLES AND PRACTICE OF
OPERATIVE DENTISTRY**

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 :

(2 × 15 = 30)

(1) Define and classify class II lesions. Discuss in detail occlusal loading and its effect on class II amalgam restorations.

(2) Glass ionomer cement and its extended uses in restorative dentistry.

II. Short notes on :

(10 × 5 = 50)

(a) Rake angle, clearance angle, edge angle and radial land

(b) Gingival tissue management

(c) Chemo-mechanical caries removal

(d) Newer formulations for vital tooth bleaching

(e) Importance of contours and contacts

(f) Advantages and disadvantages of ceramic inlays

(g) A.D.A. specifications and properties regarding inlay casting wax

(h) Contact matrices

(i) Theories of dentinal hypersensitivity

(j) Smear layer and sixth generation bonding systems.

SEPTEMBER 2006

[KP 360]

Sub. Code : 2321

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Part II

**Paper I — PRINCIPLES AND PRACTICE OF
OPERATIVE DENTISTRY**

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. Direct Filling Gold – as a restorative material. (20)**
- 2. Write in detail about Bevels and Flares in
Operative Dentistry. (15)**
- 3. Enumerate various isolation techniques including
recent advancements. (15)**

II. Write short notes on :

(6 × 5 = 30)

- (a) Importance of hand cutting instruments.**
 - (b) Matrices and Retainers.**
 - (c) Enumerate various tooth numbering system's
and its significance.**
 - (d) Causes of failure of Inlay restorations.**
 - (e) Management of gingival tissue during
operative procedures.**
 - (f) Sterilization of hard pieces.**
-

MARCH 2007

[KQ 360]

Sub. Code : 2321

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

**(For candidates admitted from the academic year
1993-94 onwards)**

**Paper I — PRINCIPLES AND PRACTICE OF
OPERATIVE DENTISTRY**

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. Discuss recent developments in prefabricated
posts. (20)**

2. Remineralisation – Discuss. (15)

**3. Discuss various techniques of restoring complex
cavities in posterior teeth. (15)**

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

**(a) Describe causes, incidence and management
of abfractions.**

(b) Manipulation of Direct Filling Gold.

**(c) Significance of Lasers in conservative
dentistry**

(d) Management of hypersensitivity.

**(e) Retention and resistance form for Cl. II inlay
cavity for gold alloy.**

**(f) Contour and contact – its significance in
restorative dentistry.**