

APRIL 2001

[KD 361]

M.D.S. DEGREE EXAMINATION

Branch III — Conservative Dentistry

Part II

**Paper II — DENTAL MATERIALS AND PREVENTIVE
DENTISTRY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss the various methods of preventing, minimizing and compensating for casting shrinkage. (25)
 2. Describe in detail about various caries activity tests. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Refractory materials.
 - (b) Iontoporesis.
 - (c) Dispersion strengthened amalgam
 - (d) Tarnish and corrosion.
 - (e) Tricure glass Ionomers.
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[KE 361] **NOVEMBER 2001**

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Part II

Paper II — DENTAL MATERIALS AND
PREVENTIVE DENTISTRY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss critically the progress made in the development of adhesive materials in Dentistry. (25)
 2. Discuss the causes and their management of distortion of Mesio-Occluso-Distal (M.O.D.) wax pattern. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Base metal alloys used in bonded porcelain restoration
 - (b) Types of cohesive gold
 - (c) Uses of wedges in Dentistry
 - (d) Types of Rake angles of Bur
 - (e) Gallium Alloys.
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[KG 361]

MARCH 2002

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Part II

Paper II — DENTAL MATERIALS AND PREVENTIVE
DENTISTRY

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Describe the various types of fillers used in composite resins and their effects in the properties of the set resin. (25)
 2. Critically discuss the release, absorption and possible health effects of mercury from dental amalgam restorations. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Divestment material.
 - (b) Veneers in restorative dentistry.
 - (c) Use of computer aided designing and computer aided machining in dentistry.
 - (d) Role of non-precious alloys in dentistry.
 - (e) Low mercury amalgams.
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SEPTEMBER 2002
[KH 361]

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Part II

**Paper II — DENTAL MATERIALS AND PREVENTIVE
DENTISTRY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss critically the role of fluorides in prevention of dental caries. (25)
2. Discuss various dental materials used for pulp protection. (25)

3. Write briefly on : (5 × 10 = 50)

- (a) Resin modified glass ionomers
 - (b) Casting alloys
 - (c) Metal fused ceramics
 - (d) Gallium alloys
 - (e) Rubber base impression materials.
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APRIL 2003

[KI 361]

Sub. Code : 2322

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Part II

**Paper II — DENTAL MATERIALS AND PREVENTIVE
DENTISTRY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the role of fluorides in caries prevention.
(25)
 2. Discuss critically 'impression procedures for cast restorations.'
(25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Adhesion
 - (b) Die materials
 - (c) Castable ceramias
 - (d) Inlay wax
 - (e) Caries immunity.
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OCTOBER 2003

[KJ 361]

Sub. Code : 2322

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — CONSERVATIVE DENTISTRY

Part-II

Paper II — DENTAL MATERIALS AND PREVENTIVE
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

M.C.Q. must be answered **SEPARATELY** on the
Answer Sheet provided as per the instructions on the
first page of MCQ Booklet.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essay :

(2 × 15 = 30)

1. Discuss Glass ionomer cement. Add a note on
advances in GIC.

2. Evaluate ceramic as a restorative material.

3. Short notes :

(10 × 5 = 50)

(a) Acid etching.

(b) Porosities in casting.

(c) Define die. What are the materials used.

Describe electroformed dies.

(d) Investments for casting.

(e) Calcium hydroxide cement.

(f) High copper amalgam.

(g) Mercury free amalgam.

(h) Super EBA cement.

(i) Degassing in gold foil restorations.

(j) Corrosion and Tarnish.

APRIL 2004

[KK 361]

Sub. Code : 2322

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Paper II — DENTAL MATERIALS AND PREVENTIVE
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 occlusion as related to the field of
operative dentistry.

(2) Discuss in detail about caries prevention
including recent advancements.

B. Short Note (10 × 5 = 50)

(1) Dental adhesion.

(2) CAD/CAM restorations.

(3) Gold as a restorative material.

(4) Bio mechanics for restorative dentistry.

(5) Recent Advancements in Vital Bleaching -
Processing.

(6) Mercury Toxicity and its preventive
measuring.

(7) Acid etched resin bonded splint.

(8) New generation of Dentin Binding Agents.

(9) Rubber base impression material's in
conservative dentistry.

(10) Flowable composite.

AUGUST 2004

[KL 361]

Sub. Code : 2322

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

**Paper II — DENTAL MATERIALS AND PREVENTIVE
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 the methods of testing the biocompatibility of dental materials. Discuss the effects of dental cements on the pulp tissue.

(2) Discuss the current strategies of caries prevention.

II. Short notes on :

(10 × 5 = 50)

- (a) Causes of defective casting.
- (b) Factors affecting colour of ceramics.
- (c) Systemic reactions of amalgam.
- (d) Flow properties of inlay wax.
- (e) Composition and properties of resin cements.
- (f) Osseointegration.
- (g) Electrochemical corrosion of dental materials.
- (h) Newer composite materials.
- (i) Compaction of direct filling gold.
- (j) Fluoride release from restorative materials.

FEBRUARY 2005

[KM 361]

Sub. Code : 2322

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

**Paper II — DENTAL MATERIALS AND PREVENTIVE
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) Describe in detail current concepts of remineralization. Discuss newer methods of caries detection.

(2) Discuss casting defects in detail. Mention various means and methods to prevent the same.

II. Short notes on :

(10 × 5 = 50)

(a) Calcium hydroxide – formulations and mechanism of action.

(b) Phases of silver amalgam

(c) Soldering and welding

(d) Atraumatic restorative treatment

(e) Professional fluoride application

(f) Disinfection of impression materials

(g) Dies and die materials

(h) Biocompatibility tests (ISO 10993)

(i) Caries Risk Assessment

(j) Bonded amalgam.

SEPTEMBER 2006

[KP 361]

Sub. Code : 2322

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

Paper II — DENTAL MATERIALS AND PREVENTIVE
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 questions :

(1) Write in detail about glass ionomer cement
from 1971 to 2006. (20)

(2) Pulp Capping agents — Comment on
calcium hydroxide V/s Recent advanced materials. (15)

(3) Write in detail about finishing and polishing
of various restorations. (15)

II. Short notes :

(6 × 5 = 30)

(a) Die materials

(b) Recent advancements in dentin bonding
agents.

(c) Role of diet in dental caries.

(d) Role of fluoride in prevention of dental caries.

(e) Condensable composites

(f) Vecneav's in dentistry.

MARCH 2007

[KQ 361]

Sub. Code : 2322

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Conservative Dentistry

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

**Paper II — DENTAL MATERIALS AND
PREVENTIVE 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) Describe in detail about the dentine bonding
agents. (20)**

**(2) Write about the hypersensitive dentine and
its management. (15)**

**(3) Various types of veneers in Conservative
Dentistry. (15)**

II. Short notes :

(6 × 5 = 30)

- (a) Investment materials**
 - (b) Salivary Test**
 - (c) Caries Vaccine**
 - (d) Night guard bleaching**
 - (e) Core Build up materials**
 - (f) Role of fluoride in prevention of Dental
caries.**
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