

Seat No.: \_\_\_\_\_

PRN \_\_\_\_\_

**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. – Part (I) – EXAMINATION SEPT – DEC 2023

**Specialization: Conservative Dentistry and Endodontics**    **Date: 29/09/2023**

**Subject Code: 2DS2040101**

**Subject Name: PAPER - I**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following questions**

- |      |   |    |
|------|---|----|
| Q.1  | Discuss blood & nerve supply of the jaws.                                       | 10 |
| Q.2  | Discuss pharmacokinetics of Local Anesthetic agents.                            | 10 |
| Q.3  | Discuss tests of significance - parametric and non-parametric.                  | 10 |
| Q.4  | What are the sampling methods in research?                                      | 10 |
| Q.5  | Discuss properties of composite resins and their influence on clinical outcome. | 10 |
| Q.6  | Discuss hypoplasia affecting the teeth.   | 10 |
| Q.7  | Odontogenic and non-odontogenic pain  | 10 |
| Q.8  | How does morphology & histology of a tooth influence the restorative procedure? | 10 |
| Q.9  | Factors affecting wound healing   | 10 |
| Q.10 | Biomedical waste management in dental clinic.                                   | 10 |

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**Narsinhbhai Patel Dental college & Hospital, Visnagar**  
**M.D.S. – Part-I – EXAMINATION – 2023**

**Specialization: Conservative Dentistry & Endodontics**

**Date: 12/08/2023**

**Subject Code:**

**Subject Name: Paper-I Basic Science**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Questions**

Q.1	Role of Saliva	10
Q.2	Diet & Dental Caries	10
Q.3	Infection control in dental Clinics	10
Q.4	Calcium Metabolism	10
Q.5	Hybrid Layer	10
Q.6	Developmental disturbance of dentin	10
Q.7	Maxillary sinus	10
Q.8	Reversal of flurosis	10
Q.9	Casting defect	10
Q.10	Importance of finishing and polishing in restorative dentistry	10

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**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. 3rd Year (Part-II) Paper III – EXAMINATION – MAY – JULY 2023

**Specialization: Conservative & Endodontics**

**Date: 30/06/2023**

**Subject Code: 2DS2040203**

**Subject Name: Paper- III**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Essay Questions (Any Two out of Three)**

**100 Marks**

- |     |                                       |    |
|-----|---------------------------------------|----|
| Q.1 | Recent advances in Esthetic Dentistry | 50 |
| Q.2 | Biocompatibility of Dental Materials  | 50 |
| Q.3 | Minimal Intervention Dentistry        | 50 |

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**SANKALCHAND PATEL UNIVERSITY**  
**M.D.S. 3rd Year (Part-II) Paper II – EXAMINATION – MAY – JULY 2023**

**Specialization: Conservative & Endodontics**

**Date: 28/06/2023**

**Subject Code: 2DS2040202**

**Subject Name: Paper- II**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

- |     |  |    |
|-----|--|----|
| Q.1 | Discuss Procedural Errors in Endodontics.  | 25 |
| Q.2 | Recent advances in Root Canal Obturation . | 25 |

**Answer following Short Questions**

- |     |                                   |    |
|-----|-----------------------------------|----|
| Q.3 | Guided Endodontics                | 10 |
| Q.4 | CBCT in Endodontics               | 10 |
| Q.5 | Herbal Irrigants                  | 10 |
| Q.6 | Internal Resorbtion               | 10 |
| Q.7 | Role of E-feacalis in Endodontics | 10 |

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**SANKALCHAND PATEL UNIVERSITY**

**M.D.S. 3rd Year (Part-II) Paper I – EXAMINATION – MAY – JULY 2023**

**Specialization: Conservative & Endodontics**

**Date:26/06/2023**

**Subject Code: 2DS2040201**

**Subject Name: Paper I**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

**Q.1** Critically evaluate dimensional stability and micro leakage of various restorative materials **25**

**Q.2** Discuss recent advances in post and core **25**

**Answer following Short Questions**

**Q.3** Veneers and Laminates **10**

**Q.4** Role of Saliva in Dental Caries **10**

**Q.5** Lasers in Conservative Dentistry **10**

**Q.6** Posterior Composite restoration **10**

**Q.7** CAD-CAM in Dentistry **10**

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**Narsinhbhai Patel Dental college & Hospital, Visnagar**  
**M.D.S. – Part-II – EXAMINATION – 2023**

**Specialization: Conservative Dentistry & Endodontics**

**Date: 29/03/2023**

**Subject Code: 2DS2040203**

**Subject Name: Paper-III**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Essay Questions ( Any Two out of Three)**

100 Marks

Q.1 Artificial Intelligence in conservative & Endodontics

50

Q.2 3D Guided Endodontics

50

Q.3 Recent advances in management of smear layer

50

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(10/5)

**Narsinhbhai Patel Dental college & Hospital, Visnagar**  
**M.D.S. - Part-II - EXAMINATION 2023**

**Specialization:**  
**Subject Code:**  
**Subject Name: Paper-II**  
**Time: 3 Hrs.**

**Date: 00/00/2023**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

- Q.1 Discuss the sequel & management of a defective root canal filling. 25
- Q.2 Discuss critically various retrofilling materials used in endodontics. 25

**Answer following Short Questions**

- Q.3 Discuss the protocol for disinfection of a wet -weeping canal. 10
- Q.4 Discuss the management of a Maxillary central incisor with invasive cervical root resorption. 10
- Q.5 PUI V/S PAD 10
- Q.6 Write a critique on use of CBCT in endodontics 10
- Q.7 Discuss role of adhesion in root canal obturation. 10

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Narainbhai Patel Dental college & Hospital, Visnagar  
M.D.S. Part-II EXAMINATION 2023

Specialization: Conservative Dentistry and Endodontics

Date: 00/00/2023

Subject Code: 2D2040201

Subject Name: Paper-I

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

- |   |    |
|---|----|
| Q.1 Justify rubber dam application is must for success of restorative treatment | 25 |
| Q.2 Indirect tooth colored restorations   | 25 |

Answer following Short Questions

- |  |    |
|--|----|
| Q.3 Prevention of Dental Caries                    | 10 |
| Q.4 Class II amalgam v/s Class II inlay            | 10 |
| Q.5 Recent advances in gingival tissue management  | 10 |
| Q.6 Principles of smile design and shade selection | 10 |
| Q.7 Hybrid layer                                   | 10 |

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**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. -1<sup>st</sup> Year Part (I) – EXAMINATION, July-September 2022

**Specialization: Conservative Dentistry and Endodontics**      **Date: 13/09/2022**

**Subject Code: 2DS2040101**

**Subject Name: Paper -I**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following questions**

- |  |           |
|--|-----------|
| <b>Q.1</b> Microbiology of Endo-Perio lesions                                | <b>10</b> |
| <b>Q.2</b> Saliva as a Biomarker   | <b>10</b> |
| <b>Q.3</b> Chemical mediators of Inflammation                                | <b>10</b> |
| <b>Q.4</b> Sampling in clinical research                                     | <b>10</b> |
| <b>Q.5</b> Fillers in Dental Composite                                       | <b>10</b> |
| <b>Q.6</b> Pulp Calcifications   | <b>10</b> |
| <b>Q.7</b> Growth Factors in various Pulpal Therapies                        | <b>10</b> |
| <b>Q.8</b> Dose of local Anesthetic solutions used in endodontics therapy    | <b>10</b> |
| <b>Q.9</b> Lateral pterygoid muscle & its applied aspects                    | <b>10</b> |
| <b>Q.10</b> Calcium Hydroxide and its role in healing of peri-apical lesions | <b>10</b> |

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NARSINIBHAI PATEL DENTAL COLLEGE & HOSPITAL, VISNAGAR

MDS Examination

Conservative Dentistry & Endodontics

Applied anatomy, Physiology and Dental Materials

**Paper –I (Max-100 marks)**

1. Describe the various aspects of oral cavity that have an influence on the Biocompatibility of Dental Materials. (10 marks)
2. Discuss endodontic microbiology in failed root canal therapy. (10 marks)
3. Complication of Local Anesthesia. (10 marks)
4. Calcium Metabolism (10 marks)
5. Describe Orofacial Pain and its management. (10 marks)
6. Rubber dam in restorative dentistry (10 marks)
7. Inferior alveolar nerve (10 marks)
8. Casting defects (10 marks)
9. Covid-19 infection prevention and control. (10 marks)
10. Recent advances in Dental adhesion. (10 marks)

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**SANKALCHAND PATEL UNIVERSITY**  
**M.D.S. – Part-II – EXAMINATION – JULY - SEPT 2022**

**Specialization: Conservative Dentistry and Endodontics**

**Date: 07/07/2022**

**Subject Code: 2DS2040203**

**Subject Name: Paper-III**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Essay Questions ( Any Two out of Three)**

100 Marks

Q.1 Laser in Endodontics

50

Q.2 Magnification

50

Q.3 Recent Advances in aesthetic restorations of Non-carious lesions

50

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**SANKALCHAND PATEL UNIVERSITY**  
**M.D.S. – Part-II – EXAMINATION – JULY - SEPT 2022**

**Specialization: Conservative Dentistry and Endodontics**

**Date: 05/07/2022**

**Subject Code: 2DS2040202**

**Subject Name: Paper - II**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

- Q.1 Discuss mechanism of Odontogenic and Non-odontogenic pain. 25  
Discuss various pain control measures undertaken in endodontic procedures
- Q.2 Digitalization in Endodontics and its role in diagnosis, prognosis and 25  
treatment planning in Endodontic lesions

**Answer following Short Questions**

- Q.3 Healing after Endodontic procedures 10
- Q.4 Guided Endodontics 10
- Q.5 Recent trends in Endodontic Retreatment 10
- Q.6 Endodontic Biofilm 10
- Q.7 Management of Root resorption 10

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**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. – Part-II – EXAMINATION – JULY - SEPT 2022

**Specialization: Conservative Dentistry and Endodontics**

**Date:02/07/2022**

**Subject Code: 2DS2040201**

**Subject Name: Paper - I**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

- Q.1 Discuss indications and contraindications of Cast inlay restorations. 25  
Elaborate various retention and resistance features in inlay cavity preparation
- Q.2 Discuss Gingival tissue management during restorative procedures 25

**Answer following Short Questions**

- Q.3 Tarnish and Corrosion 10
- Q.4 OSHA Guidelines 10
- Q.5 CAD-CAM in Operative dentistry 10
- Q.6 Cuapal deflection in Composites 10
- Q.7 Caries Diagnosis 10

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**SANKALCHAND PATEL UNIVERSITY**  
**M.D.S. -1<sup>st</sup> Year Part (I) – EXAMINATION, July-September 2021**

**Specialization: Conservative Dentistry and Endodontics**

**Date: 29/6/2021**

**Subject Code: 2DS2040101**

**Subject Name: Paper -I**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following questions**

Q.1 Facial nerve	10
Q.2 Dental casting alloy	10
Q.3 Microbiology of Endodontic infection	10
Q.4 Calcium and Phosphorous metabolism	10
Q.5 Smart materials	10
Q.6 Micro-leakage	10
Q.7 Role of saliva in dental caries	10
Q.8 Nano dentistry	10
Q.9 Matrix systems	10
Q.10 Significance of pulp dentin organ	10

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**SANKALCHAND PATEL UNIVERSITY**  
**M.D.S. – 3<sup>rd</sup> Year Part-II – EXAMINATION, July - September 2021**

**Specialization: Conservative & Endodontics**

**Date: 2/7/ 2021**

**Subject Code: 2DS2040203**

**Subject Name: Paper- III**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt any TWO questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Essay Questions (Any Two out of Three)**

**100 Marks**

- |  |           |
|--|-----------|
| <b>Q.1</b> NANODENTISTRY- A far- fetched dream?                          | <b>50</b> |
| <b>Q.2</b> Regenerative Endodontics.                                     | <b>50</b> |
| <b>Q.3</b> Discuss various physical properties of Restorative materials. | <b>50</b> |

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**SANKALCHAND PATEL UNIVERSITY**

M.D.S. – 3<sup>rd</sup> Year Part-II – EXAMINATION, July - September 2021

**Specialization: Conservative & Endodontics**

**Date: 30/6/ 2021**

**Subject Code: 2DS2040202**

**Subject Name: Paper- II**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

- Q.1** Discuss about development of Root Apex and it's clinical significance in working length determination. **25**
- Q.2** Discuss various theories and causes of pain in Endodontics & Differentiate between periapical and periodontal pain in Endodontics **25**

**Answer following Short Questions**

- Q.3** Discuss GTR & GBR in Endodontics **10**
- Q.4** Explain solid obturations with their advantages and disadvantages. **10**
- Q.5** Discuss diagnosis and management vertical root fractures. **10**
- Q.6** Which are different irrigation methods & discuss sodium hypochlorite accident and it's management. **10**
- Q.7** Classify curved canals and discuss instrumentation, management of it with protocols. **10**

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**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. – 3<sup>rd</sup> Year Part-II – EXAMINATION, July - September 2021

**Specialization: Conservative & Endodontics**

**Date: 28/6/ 2021**

**Subject Code: 2DS2040201**

**Subject Name: Paper- 1**

**Time: 3 Hrs.**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

- Q.1** Discuss Incremental techniques during direct composite restoration in posterior teeth. 25
- Q.2** Discuss speeds in dentistry! Explain Bur design in detail. 25

**Answer following Short Questions**

- Q.3** Explain setting reaction of all types of glass ionomer cements. 10
- Q.4** Discuss various casting defects. 10
- Q.5** Discuss G.V.Black's Instrument formula in Conservative Dentistry and enumerate the instruments. 10
- Q.6** Management of gingival tissues during cavity preparation and impression Procedures. 10
- Q.7** Discuss Class-III cavity preparation for direct filling gold . 10

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SANKALCHAND PATEL UNIVERSITY  
NARSINHBHAI PATEL DENTAL COLLEGE AND HOSPITAL  
MDS MOCK EXAMINATION BATCH 2018-21  
CONSERVATIVE DENTISTRY & ENDODONTICS PAPER-III

**Time: 3 Hours**

**Total marks: 100**

**Note- Draw labeled diagrams wherever necessary.**

**Q1 . Write Essay on any two of the following. (Any two)**

**(50× 2 =100)**

- 1. Discuss in details about Endodontic Microsurgery.**
- 2. Discuss in detail about indirect esthetic restorations.**
- 3. Single file system in Endodontics.**

SANKALCHAND PATEL UNIVERSITY  
NARSINHBHAI PATEL DENTAL COLLEGE & HOSPITAL, VISNAGAR

MDS Mock Examination batch 2018-21

Conservative Dentistry & Endodontics

Endodontics Paper II

Time: 3 Hours

Total marks: 100

Long essay:

1. Describe Root fracture in Endodontics. Add a note on Healing. (25)
2. Discuss intra canal irrigants used during root canal treatment. Describe in details current irrigation systems. (25)

Short essay:

(10× 5 =50)

1. Internal root resorption
2. Apical changes in root filled teeth
3. Tissue engineering
4. Methods of retrieval of instruments
5. Ultrasonics

SANKALCHAND PATEL UNIVERSITY  
NARSINHBHAI PATEL DENTAL COLLEGE & HOSPITAL, VISNAGAR

MDS Mock Examination batch 2018-21

Conservative Dentistry & Endodontics

Conservative Dentistry Paper I

**Time: 3 Hours**

**Total marks: 100**

**Long Essay**

1. Describe in details about non carious lesions of teeth. Discuss etiology, diagnosis, treatment and its prevention of each. (25)
2. Describe in details composites and its recent advances in restorative dentistry. Discuss elastomeric impression materials. (25)

**Short essay:**

(10× 5 =50)

1. Smear layer
2. Kinetic cavity preparation
3. Recent advances in Glass Ionomer Cement
4. Minimally invasive dentistry
5. Smile Design

**SANKALCHAND PATEL UNIVERSITY**  
**NARSINHBHAI PATEL DENTAL COLLEGE & HOSPITAL, VISNAGAR**

**MDS Mock Examination batch 2020-23**

**Conservative Dentistry & Endodontics**

**Applied anatomy, Physiology and Dental Materials**

**Paper –I**

**Time: 3 Hours**

**Total marks: 100**

**SHORT NOTES**

**(10× 10 =100)**

1. Physiology of dental pain
2. Regressive changes in dentin and pulp
3. Recent advances in dental composites
4. Biocompatibility of dental materials
5. Calcium hydroxide in Endodontics
6. Role of saliva in dental caries
7. Balanced diet
8. Antibiotics in endodontic infection
9. Wound healing
10. Impression Materials

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**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. – 3<sup>rd</sup> Year – EXAMINATION – JULY-AUGUST 2020

**Specialization: Conservative Dentistry and Endodontics**

**Date: 17/08/2020**

**Subject Code: 1DS2040101**

**Subject Name: Paper-I**

**Time: 3 Hrs**

**Total Marks: 75**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

- Q.1** Why it is important to understand the thickness of remaining dentin before performing pulp protection procedure? Write in brief the various pulp protecting agents. **20**
- Q.2** Write in detail about the origin of the trigeminal nerve and its branches and the specific area being supplied by them. **20**

**Answer following Short Questions**

- Q.3** Importance of statistical analysis in research **7**
- Q.4** Current tools for diagnosis of dental caries **7**
- Q.5** Gate theory for pain control **7**
- Q.6** Endodontic biofilm **7**
- Q.7** Importance of Nano technology in dentistry **7**

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**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. - 3<sup>rd</sup> Year - EXAMINATION - JULY-AUGUST 2020

**Specialization: Conservative Dentistry and Endodontics**

**Date: 24/08/2020**

**Subject Code: 1DS2040104**

**Subject Name: Paper-IV**

**Time: 3 Hrs**

**Total Marks: 75**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Essay questions (One out of Two)**

**75 Marks**

**Q.1** Write an essay on various measures by which the Cyclic fatigue resistance of an endodontic instruments can be improved

**Q.2** Importance of adhesion in restorative dentistry

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**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. – 3<sup>rd</sup> Year – EXAMINATION – JULY-AUGUST 2020

**Specialization: Conservative Dentistry and Endodontics**

**Date: 21/08/2020**

**Subject Code: 1DS2040103**

**Subject Name: Paper-III**

**Time: 3Hrs**

**Total Marks: 75**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

- Q.1** Describe invasive cervical resorption under the following heads. **20**  
Definition, etiology, clinical features and management
- Q.2** Why endodontic irrigation is important? What are various **20**  
current technology for improving the efficacy of endodontic  
irrigants

**Answer following Short Questions**

- Q.3** Importance of accurate measurement of working length in **7**  
endodontic treatment
- Q.4** Pulp sensibility test **7**
- Q.5** Endodontic monoblock concept **7**
- Q.6** Carrier based endodontic obturation **7**
- Q.7** Importance of surface treatment of Ni-Ti rotary endodontic **7**  
instruments

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**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. - 3<sup>rd</sup> Year - EXAMINATION -JULY-AUGUST- 2020

**Specialization: Conservative Dentistry and Endodontics**

**Date: 19/08/ 2020**

**Subject Code: 1DS2040102**

**Subject Name: Paper-II**

**Time: 3Hrs**

**Total Marks: 75**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

- Q.1** Define and classify non carious cervical lesion. Write in detail 20  
the various minimally invasive restorative options for the  
clinical management of the same.
- Q.2** Write in detail, the various ways by which the casting shrinkage 20  
of alloys is compensated

**Answer following Short Questions**

- Q.3** Write in short about the Indirect composite inlays 7
- Q.4** Write about the pattern wax and its ideal requirements 7
- Q.5** Metal free ceramics 7
- Q.6** How do we achieve the Gingival tissue retraction during the 7  
tooth preparation and impression making
- Q.7** Gingival margin trimmer and its clinical uses in restorative 7  
dentistry

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**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. - Part (I) - EXAMINATION, JULY-AUGUST-2020

**Specialization: Conservative Dentistry & Endodontics**

**Date: 25/08/2020**

**Subject Code: 2DS2040101**

**Subject Name: Applied Basic Sciences**

**Time: 3 hrs**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following questions	Marks
Q.1 TMJ - anatomy and function	10
Q.2 Importance of saliva in oral health	10
Q.3 Classify NSAID. Add a note on its use in dentistry	10
Q.4 Calcium and Phosphorus metabolism	10
Q.5 Management of biomedical waste in dental clinics	10
Q.6 Biofilms	10
Q.7 Water soluble vitamins	10
Q.8 Recent advances in GIC	10
Q.9 Shrinkage prosodies	10
Q.10 Significance of apical 1/3 of root	10

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**SANKALCHAND PATEL UNIVERSITY**  
**M.D.S. 1<sup>st</sup> Year – Part (I) – EXAMINATION JUNE-JULY 2019**

**Specialization: CONSERVATIVE DENTISTRY & ENDODONTICS**

**Date: 10/06/2019**

**Subject Code: 2DS2040101**

**Subject Name: Applied Basic Sciences, Paper - 1**

**Time: 3hrs**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following questions**

- |      |   |    |
|------|---|----|
| Q.1  | Factors affecting color selection in aesthetic dentistry.   | 10 |
| Q.2  | Hybrid layer  | 10 |
| Q.3  | Muscles of mastication.                                     | 10 |
| Q.4  | Calcium metabolism.   | 10 |
| Q.5  | Write in details of inlay wax.                              | 10 |
| Q.6  | Describe in details about theories of pain and its pathway. | 10 |
|      | Discuss referred pain.                                      |    |
| Q.7  | Smart materials   | 10 |
| Q.8  | Casting defects.  | 10 |
| Q.9  | Trigeminal nerve and its importance                         | 10 |
| Q.10 | Describe development of tooth                               | 10 |

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PR No. \_\_\_\_\_

**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. - 3<sup>rd</sup> Year - EXAMINATION - MAY - JUNE 2019

**Specialization: Conservative Dentistry & Endodontics**

**Date: 08/06/ 2019**

**Subject Code: IDS2040104**

**Subject Name: Essay**

**Time: 3 hrs**

**Total Marks: 75**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**75 Marks**

**Write following Essay Questions (One out of Two)**

**Q.1** Magnifications in endodontics

**Q.2** Interdisciplinary consideration in treatment planning as related to operative dentistry and aesthetic dentistry.

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**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. - 3<sup>rd</sup> Year - EXAMINATION - MAY - JUNE 2019

**Specialization: Conservative Dentistry & Endodontics**      **Date: 06/06/ 2019**  
**Subject Code: 1DS2040103**  
**Subject Name: ENDODONTICS**  
**Time: 3 hrs**

**Total Marks: 75**

**Instructions:**

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

- Q.1** Discuss recent views on rationale for treatment and management of avulsed teeth. 20
- Q.2** What is the importance of irrigation in root canal treatment? 20  
Discuss newer irrigating devices in detail.

**Answer following Short Questions**

- Q.3** Endodontic emergencies. 7
- Q.4** Endo perio lesions. 7
- Q.5** Canal projection techniques. 7
- Q.6** Healing after endodontic procedures. 7
- Q.7** Growth factors in Regenerative endodontics.

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**Specialization:** Conservative Dentistry & Endodontics  
**Subject Code:** IDS2040102  
**Subject Name:** CONSERVATIVE DENTISTRY  
**Time:** 3 hrs

Date: 03/06 / 2019

**Total Marks:** 75

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

**Q.1** Describe the Composites in restorative dentistry. Add a note on its uses and recent advances. **20**

**Q.2** Discuss gingival management during restorative procedures. **20**

**Answer following Short Questions**

**Q.3** Forces acting on restorations. **7**

**Q.4** Finishing and Polishing of restorations. **7**

**Q.5** CAD-CAM in Operative dentistry. **7**

**Q.6** Magnification in operative dentistry. **7**

**Q.7** Radiography in conservative dentistry **7**

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SPU-80218

SPU-80218

Seat No.:

PR No.:

**SANKALCHAND PATEL UNIVERSITY**  
M.D.S. - 3<sup>rd</sup> Year - EXAMINATION JUNE-JULY 2019

Specialization: Conservative Dentistry & Endodontics

Date: 01/06/2019

Subject Code: IDS2040101

Subject Name: Applied Basic Sciences

Time: 3 hrs

Total Marks: 75

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

**Answer following Long Questions**

**Q.1** Discuss critically the factors to be considered for successful bonding of various bonding agents to enamel and dentin. **20**

**Q.2** Classify local anaesthetics and its mechanism of action. Describe the various anaesthetic techniques employed to achieve pulpal anaesthesia. **20**

**Answer following Short Questions**

**Q.3** Culture media and their limitation **7**

**Q.4** Role of saliva in dental caries **7**

**Q.5** Recent advances in bioactive material **7**

**Q.6** Movements in TMJ **7**

**Q.7** Test of significance. **7**

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**First year Master Of dental Surgery(MDS) Examination**

**MARCH 200**

**Conservative Dentistry & Endodontics**

**Applied anatomy, Physiology and Dental Materials**

**Paper –I**

Time: 3 Hours

Max Marks- 100

**Note-Your answers should be specific to the question asked. Draw neat, labeled diagrams wherever necessary.**

(10 questions× 10 marks)

1. Describe development and function of pulp and analyze the significance of pulp – dentin organ.
2. Name the coagulation factors. Discuss the intrinsic and extrinsic pathways of coagulation and applied aspects.
3. Recent advances in glass ionomer cement.
4. Discuss reversal of fluorosis.
5. Anatomy of root apex and its significance
6. Explain protection of clinical personnel from hepatitis B infection related to dental
7. Culture media and their limitations
8. Vitamins and oral health.
9. Complications of local anesthesia.
10. Role of saliva in dental caries.



NARSINHIBHAI PATEL DENTAL COLLEGE & HOSPITAL, VISNAGAR

MDS Mock Examination

Conservative Dentistry & Endodontics

Applied anatomy, Physiology and Dental Materials

**Paper -I**

**Long Essay**

1. Discuss dental adhesion and various bonding systems related to restorative dentistry. (20)
2. Name the coagulation factors. Discuss the intrinsic and extrinsic pathways of coagulation and applied aspects. (20)

**Short notes:**

(7× 5 =35)

1. Discuss the process of healing
2. Discuss reversal of fluorosis
3. Anatomy of root apex and its significance
4. Factors affecting color selection in aesthetic dentistry.
5. Role of saliva in dental caries.

NARSINHBHAI PATEL DENTAL COLLEGE & HOSPITAL, VISNAGAR

MDS Mock Examination

Conservative Dentistry & Endodontics

Conservative Dentistry Paper II

**Long essay:**

1. Define dental caries and diagnosis. Discuss in details about classification, theories management and prevention of dental caries. (20)
2. Discuss elastomeric impression materials. Describe in details about properties of impression materials, various techniques. Add a note on its recent advances. (20)

**Short essay:**

(7 × 5 = 35)

1. Gingival tissue management during restorative procedures
2. Anatomic matrix
3. Describe in detail post and core
4. Magnification in operative dentistry
5. Recent advances in composite restoration

NARSINHIBHAL PATEL DENTAL COLLEGE & HOSPITAL, VISNAGAR

MDS Mock Examination

Conservative Dentistry & Endodontics

Endodontics Paper III

**Long essay:**

1. Describe Root fracture in Endodontics. Add a note on Healing. (20)
2. Discuss intra canal irrigants used during root canal treatment. Describe in details current irrigation systems. (20)

(7 × 5 = 35)

**Short essay:**

1. Internal root resorption
2. Apical changes in root filled teeth
3. Tissue engineering
4. Methods of retrieval of instruments
5. Root canal sealer.

Narsinhbhai Patel Dental College And Hospital

MDS Mock Examination

Conservative Dentistry & Endodontics Paper-IV

Time: 3 Hours

Max Marks- 75

Note- Draw labeled diagrams wherever necessary.

Q1 .Write Essay on anyone of the following.

a) Discuss in details about Minimal Invasive Endodontics.

Or

b) Discuss in details about Dental Ceramics.

**First year Master Of dental Surgery(MDS) Examination**

**MARCH 2019**

**Conservative Dentistry & Endodontics**

**Applied anatomy, Physiology and Dental Materials**

**1<sup>st</sup> MDS-Part I - Paper -I**

Max Marks- 100

Time: 3 Hours

**Note-Your answers should be specific to the question asked. Draw neat, labeled diagrams wherever necessary.**

(10 questions× 10 marks)

1. Describe development and function of pulp and analyze the significance of pulp – dentin organ.
2. Name the coagulation factors. Discuss the intrinsic and extrinsic pathways of coagulation and applied aspects.
3. Recent advances in glass ionomer cement
4. Discuss reversal of fluorosis
5. Anatomy of root apex and its significance
6. Explain protection of clinical personnel from hepatitis B infection related to dental
7. Culture media and their limitations
8. Describe dental amalgam and its recent advances.
9. Describe age changes of pulp dentin organ and its clinical significance.
10. Role of saliva in dental caries.

(10 marks)

- dentin

Narsinhbhai Patel Dental College And Hospital

MDS Examination  
March 2019

Conservative Dentistry & Endodontics

Paper-IV

Time: 3 Hours

Max Marks- 75

Note- Draw labeled diagrams wherever necessary.

Q1 .Write Essay on anyone of the following.

a) Discuss in details about Endodontic Mishaps.

Or

b) Discuss in detail about indirect esthetic restorations.

Final Master Of dental Surgery(MDS) Examination

March 2019

Conservative Dentistry & Endodontics

Endodontics Paper III

**Long essay:**

(20)

1. Describe Root fracture in Endodontics. Add a note on Healing.
2. Describe root canal sealers in Endodontics. Describe in details classification , ideal requirements, and recent advances .

(7× 5 =35)

**Short essay:**

1. Internal root resorption
2. Apical changes in root filled teeth
3. Current irrigation systems
4. Tissue engineering
5. Methods of retrieval of instruments

Final Master Of dental Surgery(MDS) Examination

March 2019

Conservative Dentistry & Endodontics

Conservative Dentistry Paper II

**Long essay:**

1. Describe in details about dental adhesion and its challenges. Write a note on generations of dentin bonding agents. (20)

2. Describe class II cast metal restorations in details (20)

(7 × 5 = 35)

**Short essay:**

1. Recent advances of composite material
2. Newer methods to remove caries
3. Hybrid layer
4. Matrix system
5. Creating illusion in esthetic dentistry



~~RECORDED~~ MDS Examination (MARCH 2019)

Conservative Dentistry & Endodontics

Applied anatomy, Physiology and Dental Materials

Paper -I

**Long essay:**

1. Describe dental amalgam and its recent advances. Describe in details about mercury toxicity.

(20)

2. Describe age changes of pulp dentin organ and its clinical significance. (20)

**Short essay:**

(7 × 5 = 35)

1. Role of saliva in dental caries.
2. Factors affecting color selection in aesthetic dentistry.
3. Write in detail about inlay wax.
4. Movements of Temporomandibular joint.
5. Calcium metabolism.

~~DECEMBER~~ MDS Examination (MARCH 2019)

Conservative Dentistry & Endodontics

Applied anatomy, Physiology and Dental Materials

Paper -I

**Long essay:**

1. Describe dental amalgam and its recent advances. Describe in details about mercury toxicity.

(20)

2. Describe age changes of pulp dentin organ and its clinical significance. (20)

**Short essay:**

(7 × 5 = 35)

1. Role of saliva in dental caries.
2. Factors affecting color selection in aesthetic dentistry.
3. Write in detail about inlay wax.
4. Movements of Temporomandibular joint.
5. Calcium metabolism.