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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MDS (CONSERVATIVE DENTISTRY AND ENDODONTICS)**  
**DEGREE EXAMINATION – JUNE/JULY 2020**

**SUBJECT: PAPER I – APPLIED BASIC SCIENCES: APPLIED ANATOMY,  
PHYSIOLOGY, PATHOLOGY INCLUDING ORAL MICROBIOLOGY,  
PHARMACOLOGY, BIostatISTICS & RESEARCH METHODOLOGY  
AND APPLIED DENTAL MATERIALS**

Monday, June 29, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

- ✍ Answer ALL the questions.  
✍ Illustrate your answers with diagrams, flow charts wherever appropriate.

1. Dimensional changes in restorative materials. (20 marks)

2. Saliva- the defender of oral cavity. (20 marks)

3. Write short answers on:

3A. Age changes in teeth

3B. Physiology of pulpal pain

3C. Clinical significance of TMJ in restorative dentistry

3D. Blood clotting cascade diagram and mention its significance in dentistry

3E. Diet and dental caries

(7 marks × 5 = 35 marks)



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**MDS (CONSERVATIVE DENTISTRY AND ENDODONTICS)**  
**DEGREE EXAMINATION – JUNE/JULY 2020**  
**SUBJECT: PAPER II: CONSERVATIVE DENTISTRY**

Tuesday, June 30, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

- ✍ Answer ALL the questions.  
✍ Illustrate your answers with diagrams, flow charts wherever appropriate.

1. Discuss the various treatment modalities available for management of discolored vital anterior teeth.

(20 marks)

2. Discuss retention of Amalgam restorations.

(20 marks)

3. Write Short answers on:

- 3A. Desensitizing agents
- 3B. Rotary cutting instruments
- 3C. Gingival tissue management
- 3D. Contacts and contours in restorative dentistry
- 3E. Use of magnification in restorative dentistry

(7 marks × 5 = 35 marks)



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**DEGREE EXAMINATION – JUNE/JULY 2020**

**SUBJECT: PAPER III: ENDODONTICS**

Thursday, July 02, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

- ✍ **Answer ALL the questions.**  
✍ **Illustrate your answers with diagrams, flow charts wherever appropriate.**

1. Describe traumatic injuries and its management. (20 marks)
2. Write in detail on endodontic emergencies and its management. (20 marks)
3. Write short answers on:
- 3A. Role of lasers in endodontics
- 3B. Root canal irrigation
- 3C. Advances in electronic length measurement
- 3D. Role of ultrasonics
- 3E. Molecular biology in endodontics
- (7 marks × 5 = 35 marks)



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**MDS (CONSERVATIVE DENTISTRY AND ENDODONTICS)**  
**DEGREE EXAMINATION – JUNE/JULY 2020**

**SUBJECT: PAPER IV: ESSAY**

Friday, July 03, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

- ✍ Answer ANY ONE question.
- ✍ Illustrate your answers with diagrams, flow charts wherever appropriate.
- ✍ Write essay on:
1. CBCT in endodontics.

**OR**

2. Applications of lasers in operative dentistry.

