

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (RESTORATIVE DENTISTRY) EXAMINATION
JULY 2026

PAPER I

Date:- 13th July 2026

Time:- 9.00 a.m. – 12.00 noon

Answer **all six (06)** questions.

Each question should be answered in a separate book.

1. A patient presents to you complaining of repeated dislodgement of a restoration on his 15. Apart from the missing lower left first and second molars, he has an intact dentition
 - 1.1. Outline the possible causes of dislodgement of direct restorations.
(30 marks)
 - 1.2. Explain how you would assess this patient in order to plan your restoration.
(30 marks)
 - 1.3. How would you ensure long term retention of a light cured composite restoration for 15?
(40 marks)
2. A 72-year-old male presents with a complete natural dentition with moderate generalized tooth wear. Clinical examination reveals deep proximal carious lesions involving 25, 26, and 37 teeth.
 - 2.1. How would you assess this patient in order to formulate a care plan?
(30 marks)
 - 2.2. Outline the endodontic challenges you may encounter during management.
(30 marks)
 - 2.3. Describe the restorative management of this patient.
(40 marks)

Contd.../2-

3. An otherwise healthy 65-year-old male requests a complete maxillary denture. His maxillary posterior teeth and 36 were extracted many years ago and the remaining maxillary teeth were extracted recently. On examination, a well-developed edentulous maxillary arch was observed. The 37 was mesially tilted and supra erupted.

3.1. What important factors should be considered when providing the maxillary complete denture? (20 marks)

3.2. State the possible problems that are anticipated and how they could be minimized

3.2.1 during the denture designing and fabrication (40 marks)

3.2.2 with long term usage of the denture (40 marks)

4. A 40-year-old fully dentate male was diagnosed with oral malignancy, and the maxillofacial surgeon has planned a hemi-maxillectomy followed by radiotherapy.

4.1. Outline the pre surgical preparation of this patient. (30 marks)

4.2. Describe the post-operative prosthetic rehabilitation of this patient. (40 marks)

4.3. Outline the long-term follow-up and management of this patient. (30 marks)

5.

- 5.1. Outline the significance of the medical history in implant therapy.
(30 marks)
- 5.2. Outline the loading protocols in dental implants and the factors to be considered when selecting a loading protocol.
(40 marks)
- 5.3. State the important considerations in the long-term maintenance of a patient following implant therapy.
(30 marks)

6. A 70-year-old otherwise healthy patient requests replacement of missing teeth. On examination only the upper and lower anterior teeth are present.

- 6.1. State three (03) functional indications for replacement of missing teeth for this patient.
(15 marks)
- 6.2. Describe the factors you should consider in determining the treatment plan for this patient.
(45 marks)
- 6.3. Outline the steps involved in the planning of implant retained fixed prostheses for replacement of missing teeth in this patient.
(40 marks)

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PAPER II

Date:- 13th July 2026

Time:- 1.00 p.m. – 4.00 p.m.

Answer **all six (06)** questions.

Each question should be answered in a separate book.

1. A 29-year-old lady presents with aesthetic concern and dentine sensitivity related to recession on 13, 14 and 23. She reports vigorous horizontal tooth brushing. Clinical examination shows thin periodontal phenotype, buccal recession of 3-4 mm, 4 mm probing depths with bleeding on probing and no interdental attachment loss. She is planning to undergo orthodontic treatment for mild crowding in the lower anterior region. All other sextants were code 2.
 - 1.1. State the possible biological basis for dentine sensitivity in this patient. (20 marks)
 - 1.2. Outline how you would prepare the patient prior to the surgical management of recession. (20 marks)
 - 1.3. Compare the advantages and limitations of possible surgical options to manage the recession defects in this patient. (40 marks)
 - 1.4. Outline how planned orthodontic treatment may influence timing and prognosis of surgical management of recession defects. (20 marks)
2. A 47-year-old lady presented six months after delivery of an implant supported restoration of 21. She has been treated and stabilized for generalized periodontitis two years prior to implant placement.
 - 2.1. State the clinical and radiological parameters you may use during assessment of peri-implant tissues. (40 marks)
 - 2.2. What are the three (03) possible peri-implant states related to the 21 in this patient and explain the management of each state? (60 marks)

3. A 9-year-old boy presents with pain during toothbrushing and sensitivity to cold foods and drinks. Clinical examination reveals severe hypomineralisation of all four first permanent molars and both maxillary central incisors. The mandibular first permanent molars exhibit post-eruptive enamel breakdown, and the 46 has extensive caries with clinical features suggestive of irreversible pulpitis. Generalized plaque-induced gingivitis and poor oral hygiene are present. The child is assessed as being at high caries risk using CAMBRA. A panoramic radiograph shows developing second permanent molars at initial levels of root formation and the presence of all third molar tooth germs.

3.1. Formulate a comprehensive, evidence-based multidisciplinary treatment plan for this child. Justify each component of the management plan with reference to current best practice guidelines. (60 marks)

3.2. Critically evaluate the long-term prognosis of the affected first permanent molars and discuss the factors influencing the decision between planned extraction of permanent molars and long-term restorative management in children with severe hypomineralisation. (40 marks)

4. A 9-year-old child presents with severe pain in relation to 11. The tooth was traumatized six months ago and restored with composite resin.

4.1. What clinical and radiological factors should be assessed before deciding on the most appropriate treatment? (30 marks)

4.2. Compare the available treatment options with regard to indications, clinical procedure, healing outcomes, prognosis and potential challenges. (70 marks)

5.

5.1. Outline the indications and advantages of autotransplantation of teeth.
(30 marks)

5.2. A 17-year-old male presented with impacted 13. His occlusion was otherwise normal with good oral health. Based on clinical and radiological findings, it was decided to autotransplant the impacted 13.

5.2.1. List possible features in the occlusion that would have influenced the choice of treatment.
(20 marks)

5.2.2. List the possible complications that may arise with this treatment procedure.
(20 marks)

5.2.3. State how the above complications could be minimized.
(30 marks)

6. A 45-year-old patient presents with fever, chills, difficulty in swallowing, raised tongue and swelling of the anterior neck. He had undergone the initial step of endodontic treatment on 46 five days ago.

6.1. What is the most likely diagnosis?
(05 marks)

6.2. State the criteria that has to be fulfilled in order to confirm the diagnosis stated in 6.1.
(15 marks)

6.3. List the special investigations you would consider important in the management of this patient.
(20 marks)

6.4. Explain giving reasons, the steps in the management of this patient.
(60 marks)