

# 2010 Scheme

Reg. No.: .....

## Second Year BDS Degree Supplementary Examinations June 2025

### Dental Materials

Time: 3 hrs

Max marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Write section A and section B in separate answer books (32 pages). Do not mix up questions from section A and section B

**Q P Code: 204002**

**Section A – Prosthodontics**

**Marks: 50**

**Essay**

**(14)**

1. What are the types of denture base materials. Write in detail about their chemical and physical stages of polymerization and add a note on types of curing cycles. (2+6+6)

**Short essays**

**(2x8=16)**

2. Casting porosity
3. Implant materials

**Short notes**

**(5x4=20)**

4. Dimensions of color
5. Hygroscopic expansion
6. Abrasives and Polishing agents.
7. Surface hardness
8. Composition and setting reaction of alginate impression material

**Q P Code: 205002**

**Section B – Conservative Dentistry**

**Marks: 50**

**Essay**

**(14)**

1. Write in detail about classification, composition, setting reaction and delayed expansion in dental amalgam. Add a note on mercury toxicity (2+2+4+2+4)

**Short essays**

**(2x8=16)**

2. Write in detail about cements used for pulp protection. Add a note on biocompatibility of cements. (5+3)
3. Classify Glass ionomer cements .Write in detail about the setting reaction and mechanism of fluoride release of glass ionomer cement. (3+3+2) (3+5)

**Short notes**

**(5x4=20)**

4. Direct filling gold.
5. Classification of composite resins.
6. Cermet cement.
7. Enamel bonding.
8. Wax distortion.

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