

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.
