

**Second Year BDS Degree Supplementary Examinations - March 2013****DENTAL MATERIALS****Time: 3 hrs****Max marks: 100**

- Answer all questions
- Write section A and section B in separate answer books. Do not mix up questions from section A and section B.

**Q P Code: 204002 Section A – Prosthodontics****Marks: 50****Essay (14)**

1. Composition of heat polymerized resins. Explain the chemical stages of polymerization. Describe in brief the compression molding technique. (4+4+6=14)

**Short essays (2x8=16)**

2. Classify waxes. Discuss the properties and uses of inlay wax. (3+3+2=8)
3. Classify gypsum products. Discuss briefly setting time and setting reaction of gypsum products. (3+5=8)

**Short notes (5x4=20)**

4. Methods of strengthening ceramics
5. Stress and strain
6. Composition of reversible hydrocolloid
7. Base metal alloy
8. 18-8 stainless steel

**Q P Code: 205002 Section B – Conservative Dentistry****Marks: 50****Essay (14)**

1. Classify dental cements. Explain in detail glass ionomer cements. (5+9=14)

**Short essays (2x8=16)**

2. Base metal alloys- Classification, composition, action of ingredients, advantages and disadvantages. (1+1+3+3=8)
3. Classify direct filling gold and add a note on gold foil restoration. (4+4=8)

**Short notes (5x4=20)**

4. Cavity Liners
5. Hybrid Composites
6. Admixed Amalgam Alloys
7. Composition and Properties of Inlay Wax
8. Classification and uses of Zinc Oxide Eugenol Cements

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