

**Second Year BDS Degree Examinations - August 2015****DENTAL MATERIALS****Time: 3 hrs****Max marks: 100**

- Answer all questions
- 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. Define denture base. Mention the classification and requirements of denture base resins. Add a note on chemistry of polymerization. (1+5+8=14)

Short essays (2x8=16)

2. Classify gypsum products. Explain briefly on the setting reaction of gypsum.
3. Explain briefly on tarnish and corrosion.

Short notes (5x4=20)

4. Hardness tests.
5. Syneresis and imbibition.
6. Impression compound – properties and manipulation.
7. Dentrifice.
8. Properties of inlay wax.

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

1. Explain in detail about composite resins – classification, properties and various uses. (5+5+4=14)

Short essays (2x8=16)

2. Classify dental ceramics. Explain in detail about methods of strengthening porcelain. (2+6=8)
3. Classify dental cements. Explain about cavity liners and bases. (2+6=8)

Short notes (5x4=20)

4. High noble alloys
5. Eutectic and peritectic alloys
6. Acid etching
7. Fluxes
8. Resin modified glass ionomer cements

