

**Second Year BDS Degree Examinations - August 2014****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. Classify impression materials. Explain in detail about irreversible hydrocolloid (Alginate). Add a note on recent advances in alginate impression material.

(3+8+3=14)**Short essays****(2x8=16)**

2. Classify dental casting alloys. Discuss casting defects. **(3+5=8)**
3. Classify denture base resins. Discuss briefly about the properties and stages of setting of heat activated acrylic resins. **(3+5=8)**

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

4. Gypsum bonded investment
5. Soldering and welding
6. Addition silicone impression material
7. Beta titanium
8. Dental stone

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

1. Discuss the composition, ideal requirements, classification and manipulation of dental inlay waxes in detail **(3+3+3+5=14).**

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

2. Explain the physical properties of dental amalgam
3. Discuss soldering and welding **(4+4=8)**

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

4. Sandwich technique in composites
5. Differentiate cavity liners and bases.
6. Dental bur design.
7. Casting defects.
8. Calcium hydroxide cement and its uses.

