

**Second Year BDS Degree Examinations - September 2012****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: 201002 Section A – Prosthodontics**Marks: 50****Essay (14)**

1. Classify investments. Explain briefly on gypsum bonded investments with a note on casting machines. (2+8+4=14)

Short essays (2x8=16)

2. Describe bio-compatibility tests in detail.
3. Enumerate the types of abrasives and mention briefly on bonded abrasives.

Short notes (5x4=20)

4. Color and metamerism.
5. Manipulation of agar-agar.
6. Stress and strain.
7. Cold mould seal
8. Addition silicone impression material.

Q P Code: 202002 Section B – Conservative Dentistry**Marks: 50****Essay (14)**

1. Classify dental ceramics. Explain in detail about all ceramic restorations. (4+10=14)

Short essays (2x8=16)

2. Explain in detail about various methods of trituration of amalgam and setting reaction of amalgam.
3. Classify luting cements. Explain in detail about Glass ionomer luting cement. (2+6=8)

Short notes (5x4=20)

4. Pit and fissure sealants
5. Inlay wax- composition and classification
6. CAD-CAM
7. Corrosion
8. Dental burs

