

**Second Year BDS Degree Examinations July 2017****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. Discuss casting procedure in detail. Elaborate on casting failures

**(6+8=14))****Short essays****(2x8=16)**

2. Classify primary impression materials. Describe briefly about the composition and manipulation of impression compound. **(3+5=8)**
3. Classify gypsum products. Describe briefly properties, composition and manipulation of gypsum bonded investment. **(3+5=8)**

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

4. Requirements of denture base resin
5. Hygroscopic setting expansion
6. Abrasives and polishing agents
7. Implant materials
8. Polyether.

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

1. Classify glass ionomer cements. Discuss its setting reaction, nature of adhesion and uses of glass ionomer cements. **(3+3+3+5=14)**

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

2. Methods of strengthening dental ceramics
3. Explain hybrid composite resins

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

4. Dentin bonding agents
5. Gold Foil
6. Dental burs
7. Delayed expansion of amalgam
8. Biocompatibility

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