

**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