

Second Year BDS Degree Supplementary Examinations - March 2014

**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: 204002 Section A – Prosthodontics**

**Marks: 50**

**Essay**

**(14)**

1. Classify dental waxes. Explain in detail the requirements, properties and manipulation of inlay wax. (4+10=14)

**Short essays**

**(2x8=16)**

2. Explain in detail the composition, setting reaction and manipulation of heat activated & chemically activated acrylic resins. (4+4=8)
3. Classify gypsum products. Explain in detail about type III gypsum products (4+4=8)

**Short notes**

**(5x4=20)**

4. Zinc oxide Eugenol Impression Paste
5. Abrasives and polishing agents
6. Hygroscopic setting expansion
7. Stress and strain
8. Accelerators and retarders for gypsum

**Q P Code: 205002 Section B – Conservative Dentistry**

**Marks: 50**

**Essay**

**(14)**

1. Define and classify dental amalgam. Discuss the composition and role of each ingredient (2+5+7=14)

**Short essays**

**(2x8=16)**

2. Classify dental cements. Mention briefly on calcium hydroxide (3+5=8)
3. Define and classify dental ceramics. Explain its applications (4+4=8)

**Short notes**

**(5x4=20)**

4. Micro leakage
5. Acid etching
6. Fluxes
7. Cavity varnish
8. Rake angle