



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

