

## Second Year BDS Degree Supplementary Examinations - February 2015

**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. Classify Gypsum products. Write in detail about Setting reaction and Setting expansion in Gypsum products. Add a note on accelerators and retarders of setting reaction. (3+4+7=14)

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

2. Classify investment materials. Explain in detail about phosphate bonded investment. (3+5=8)
3. Mention the ideal requirements of impression materials. Explain the composition and manipulation of impression compound. (3+2+3=8)

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

4. Nitinol
5. Physical stages of polymerization
6. Flux and anti flux
7. Polishing agents
8. Polyether impression material

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

1. Classify composite resins based on their particle size and explain in detail its method of application to the tooth structure. (5+9=14)

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

2. Classify dental ceramics. Explain briefly CAD-CAM in ceramics. (4+4=8)
3. Explain briefly tarnish and corrosion. (4+4=8)

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

4. Reinforced glass ionomer cements.
5. Cavity liners.
6. Mercury toxicity and mercury hygiene.
7. Gold foil.
8. Reinforced Zinc oxide eugenol cement

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