

**Second Year BDS Degree Supplementary Examinations August 2024**

**Dental Materials  
(2016 Scheme)**

**Time: 3 hrs**

**Max Marks: 70**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw Diagrams wherever necessary*
- *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: 214002**

**Section A – Prosthodontics**

**Marks: 35**

**Essay**

**(10)**

1. Classify gypsum products. Define setting time and explain methods of measuring setting time, theories of setting and disinfection of gypsum products. (2+2+2+2+2)

**Short Notes**

**(2x5=10)**

2. Back pressure porosity
3. Factors affecting the setting reaction of zinc oxide eugenol impression material

**Answer Briefly**

**(5x3=15)**

4. Curing cycle of heat cure acrylic resin
5. Tissue conditioners
6. Die hardner and die spacer
7. Purpose of glaze in ceramic restoration
8. What are the non-rigid impression materials

**Q P Code: 215002**

**Section B – Conservative Dentistry**

**Marks: 35**

**Essay**

**(10)**

1. Classify dental amalgam alloys. Write in detail about composition and uses of various ingredients in dental amalgam alloys. Add a note on amalgamation reaction.

**Short Notes**

**(2x5=10)**

2. Calcium hydroxide
3. Composition of inlay wax

**Answer Briefly**

**(5x3=15)**

4. Clearance angle
5. Bur Design.
6. Foil forms of direct filling gold
7. Gold Foils.
8. Indirect pulp capping

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