

**Second Year BDS Degree Regular/Supplementary Examinations  
January 2023**

**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. Write the setting reaction factors affecting setting reaction of gypsum products (2+2+6)

**Short Notes**

**(2x5=10)**

2. Write about the methods of strengthening ceramics
3. Discuss advantages and disadvantages of impression compound

**Answer Briefly**

**(5x3=15)**

4. Syneresis and imbibition
5. Acid Etching
6. Long curing cycle of denture base resins
7. Reservoir
8. Rouge

**Q P Code: 215002**

**Section B – Conservative Dentistry**

**Marks: 35**

**Essay**

**(10)**

1. Classify glass ionomer cements. Discuss the setting reaction and advantages of glass ionomer cements

**Short Notes**

**(2x5=10)**

2. Define Tarnish and corrosion. Add a note on electro-chemical corrosion.
3. Mercury Toxicity.

**Answer Briefly**

**(5x3=15)**

4. Metamerism.
5. GIOMER
6. Cavity varnish
7. Biocompatibility of composites.
8. Annealing