

**Second Year BDS Degree Supplementary Examinations July 2022**  
**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 denture base resins and describe about heat cure acrylic resins. Add a note on porosity and its causes in dental acrylic resins. (2+3+5)

**Short Notes**

**(2x5=10)**

2. Classification of ceramics
3. Hygroscopic expansion of gypsum

**Answer Briefly**

**(5x3=15)**

4. Classification of impression material.
5. Osseo integration
6. Requirements of investment materials
7. Syneresis and imbibition
8. Materials used for polishing

**Q P Code: 215002**

**Section B – Conservative Dentistry**

**Marks: 35**

**Essay**

**(10)**

1. Composition of composite resin and describe in detail about the functions of each component. (5+5)

**Short Notes**

**(2x5=10)**

2. Modification of glass ionomer cement
3. Classify amalgam according to copper content and describe the setting reaction of high copper amalgams. (1+4)

**Answer Briefly**

**(5x3=15)**

4. Flow in inlay casting wax
5. Flux and anti-flux in soldering
6. Rake angle
7. Cavity varnish
8. Tarnish and corrosion

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