



Reg. No.: .....

**Second Year BDS Degree Examinations July 2018****Dental Materials  
(2016 Scheme)**

Time: 3 hrs

Max marks: 70

- Answer all questions
- 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. Define ceramics and classify them. Describe in detail about methods of strengthening dental ceramics. (2+3+5)

**Short Notes****(2x5=10)**

2. Define and explain the steps involved in casting procedure (2+3)
3. Electroformed dies and its uses (3+2)

**Answer Briefly****(5x3=15)**

4. Adhesion and cohesion
5. Thermal expansion of gypsum bonded investment
6. Composition, types and uses of die stone
7. Curing cycle of PMMA
8. Abrasive agents used in dentistry

**Q P Code: 215002****Section B – Conservative Dentistry****Marks: 35****Essay****(10)**

1. Define composite resins. Describe the various constituents present in composite resins. Add a note on curing light. (2+5+3)

**Short Notes****(2x5=10)**

2. Classify dental cements and mention the uses of zinc polycarboxylate cement.
3. Classify inlay wax. Describe about the ideal requirements of inlay waxes.

**Answer Briefly****(5x3=15)**

4. Non gamma-2 amalgam
5. Classify dental casting alloys
6. Gutta-percha
7. Classify direct filling gold
8. Draw and label cross section of a dental bur

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