



Reg. No.: .....

**Second Year BDS Degree Supplementary Examinations January 2018****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. Define casting procedure. Describe in detail about the lost wax technique used in casting procedure in dentistry.

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

2. Impression compound
3. implant materials

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

4. synerisis and imbibition.
5. Silica
6. Impression plaster
7. setting expansion in gypsum.
8. Chemical stages of polymerization

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

1. Define composite resin. Classify them and discuss the components of composite resin materials. (2+2+10)

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

2. Zinc poly carboxylate cement: Its composition, setting reaction and mechanism of bonding to tooth structure. (2+4+2)
3. Composition and ideal requirements of inlay casting waxes. (2+6)

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

4. Classify all ceramic restorations.
5. Gamma 2 phase
6. Flux and anti-flux in soldering
7. Difference between tarnish and corrosion
8. Classification of direct filling gold.

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