

**Second Year BDS Degree Supplementary Examinations January 2019**

**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 impression. Classify impression materials. Describe in detail about composition, chemistry, uses of zinc oxide eugenol impression paste. (2+3+5)

**Short Notes**

**(2x5=10)**

2. Strengthening of dental ceramics
3. Types of casting defects

**Answer Briefly**

**(5x3=15)**

4. Curing cycle of acrylic resins
5. Setting reaction of gypsum products
6. Phosphate bonded investments
7. Classification of dental implants
8. Soldering and welding

**Q P Code: 215002**

**Section B – Conservative Dentistry**

**Marks: 35**

**Essay**

**(10)**

1. Composition of high copper amalgam and describe about the setting reaction of low and high copper amalgams. (4+6)

**Short Notes**

**(2x5=10)**

2. Composition and manipulation of zinc phosphate cement
3. Mechanism of bonding of composite resin to tooth enamel and dentin (2+3)

**Answer Briefly**

**(5x3=15)**

4. Mercury toxicity
5. Hue, value, chroma
6. Classify casting alloys
7. Rake angle
8. Cold welding and degassing in direct filling gold

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