

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
