

Second Year BDS Degree Supplementary Examinations January 2019

**Dental Materials
(2010 Scheme)**

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. Classify investment materials. Describe in detail gypsum bonded investment. (2+12)

Short essays (2x8=16)

2. Irreversible impression materials.
3. Requisites for dental resins and composition, manipulation and processing of the heat cure acrylic resin.

Short notes (5x4=20)

4. Accelerators and retarders in gypsum products
5. Manipulation of agar-agar
6. Hardness tests
7. Biocompatibility of dental materials.
8. Tissue conditioners.

Q P Code: 205002 Section B – Conservative Dentistry

Marks: 50

Essay (14)

1. What are adhesive cements. Describe the composition, manipulation and uses of type I glass ionomer cement. (4+4+6)

Short essays (2x8=16)

2. Setting reactions of different types of amalgams.
3. Define and classify composites and discuss the properties of hybrid composites in detail. (2+6)

Short notes (5x4=20)

4. Copy milling
5. Flow in inlay wax
6. Tarnish and corrosion
7. Eutectic alloys
8. Rake angle