

Second Year BDS Degree Supplementary Examinations January 2020

**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. Classify denture base materials. Explain briefly about the composition and the technique of compression moulding technique for processing heat cure acrylic denture base resin. (2+4+4)

Short Notes (2x5=10)

2. Define and classify dental ceramics (1+4)
3. Composition and uses of condensation silicone (3+2)

Answer Briefly (5x3=15)

4. Die materials
5. Gypsum bonded investments
6. Impression compound
7. Materials used for making dental implants
8. Vicat needle test.

Q P Code: 215002

Section B – Conservative Dentistry

Marks: 35

Essay (10)

1. What is dental amalgam. Classify amalgam alloy. Describe the functions of the components in the alloy powder. Add a note on the various phases present in the set amalgam. (1+3+3+3)

Short Notes (2x5=10)

2. Classify composite resins according to filler type and mention the salient properties of the different types of resin composites.
3. Cavity liners and bases

Answer Briefly (5x3=15)

4. Degassing
5. Classify inlay waxes. Mention its composition
6. Metal modified glass ionomer cements
7. Dentin bonding agents
8. Rake angle