

Second Year BDS Degree Supplementary Examinations July 2023

**Dental Materials
(2016 Scheme)**

Time: 3 hrs

Max Marks: 70

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *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 impression materials. Write in detail about composition, manipulation, properties and uses of addition silicone impression materials. (2+2+2+2+2)

Short Notes

(2x5=10)

2. Hygroscopic setting expansion
3. Chemical and physical stages of polymerization reaction in acrylic resin

Answer Briefly

(5x3=15)

4. Implant materials.
5. Factors affecting the abrasiveness of an abrasive material used in dentistry
6. Transformation toughening in dental ceramics.
7. Pickling
8. Sprue former

Q P Code: 215002

Section B – Conservative Dentistry

Marks: 35

Essay

(10)

1. Classify composites. Discuss in detail the composition and properties of composites

Short Notes

(2x5=10)

2. Sandwich technique
3. Tarnish and corrosion

Answer Briefly

(5x3=15)

4. Creep and flow
5. Acid etching technique
6. Luting cements
7. Dental burs
8. Coefficient of thermal expansion
