

**Second Year BDS Degree Regular/Supplementary Examinations
December 2020**

**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 and uses of irreversible hydrocolloid impression materials. (3+2+3+2)

Short Notes

(2x5=10)

2. Enumerate Mechanical properties of dental materials and discuss Stress-strain curve
3. Stages in addition polymerization in acrylic resins

Answer Briefly

(5x3=15)

4. Dentifrice
5. Elastic limit
6. Types of investments
7. Methods of strengthening ceramic
8. Dental stone

Q P Code: 215002

Section B – Conservative Dentistry

Marks: 35

Essay

(10)

1. Classify dental cements. Explain in detail the composition, setting reaction and biological properties of glass ionomer cement.

Short Notes

(2x5=10)

2. Dentin bonding agents.
3. Classify direct filling gold. Add a note on the compaction of direct filling gold.

Answer Briefly

(5x3=15)

4. Eames technique.
5. Role of calcium hydroxide as cavity liner.
6. Galvanic corrosion.
7. Contact angle and wetting.
8. Pickling.
