

# 2010 Scheme

Reg. No.: .....

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

### Dental Materials

Time: 3 hrs

Max marks: 100

- 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
- 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 and give the ideal requirements of the denture base materials and discuss various modes of polymerization of denture base resins. (4+3+7)

**Short essays (2x8=16)**

2. Enumerate various base metal alloys and describe in detail about stainless steel.
3. Classify gypsum products. Explain the composition setting reaction of dental plaster and stone.

**Short notes (5x4=20)**

4. Addition silicone impression materials
5. Stress – strain curve
6. Casting sprues
7. Enumerate dental implant materials
8. Compensation of casting shrinkage.

**Q P Code: 205002 Section B – Conservative Dentistry**

**Marks: 50**

**Essay (14)**

1. What are the ideal requirements of a restorative material. Mention the indications, advantages and disadvantages of tooth colored restorative materials. (4+4+6)

**Short essays (2x8=16)**

2. Classify dental waxes and describe in detail composition and properties of inlay wax. (2+6)
3. Methods of strengthening of ceramics

**Short notes (5x4=20)**

4. Acid etching
5. Difference between soldering and welding.
6. Gamma I phase
7. Classification of dental cements
8. Pit and fissure sealants

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