

# 2010 Scheme

Reg. No.: .....

## Second Year BDS Degree Supplementary Examinations August 2024

### 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. Dental implants – definition, classification and notes on implant materials and surface coatings. (2+2+5+5)

**Short essays**

**(2x8=16)**

2. Zinc oxide eugenol impression paste
3. Abrasives and polishing agents

**Short notes**

**(5x4=20)**

4. Composition and setting reaction of addition silicone impression material
5. Hygroscopic setting expansion of gypsum products
6. Porosity in denture base resins
7. Composition and setting reaction of phosphate bonded investment
8. Die spacers

**Q P Code: 205002**

**Section B – Conservative Dentistry**

**Marks: 50**

**Essay**

**(14)**

1. Classify dental cements. Discuss the composition, classification, setting reaction, properties and modifications of glass ionomer cements. (2+2+2+3+2+3)

**Short essays**

**(2x8=16)**

2. Classify dental alloys. Add a note on soldering, welding and brazing (4+4)
3. Bio compatibility of dental materials

**Short notes**

**(5x4=20)**

4. CAD-CAM
5. Acid Etching
6. Eames Technique
7. Classify and write the thermal properties of inlay wax
8. Galvanism

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