

# **2010 Scheme**

Reg. No.: .....

## **Second Year BDS Degree Supplementary Examinations January 2025 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 impression materials. Write in detail about the composition, setting reaction, advantages and disadvantages of irreversible hydrocolloid impression material. Add a note on disinfection of impressions made with this material (2+3+3+2+2+2)

### **Short essays**

**(2x8=16)**

2. Impression compound – Composition, manipulation and thermal properties (2+2+4)
3. Setting reaction of gypsum products

### **Short notes**

**(5x4=20)**

4. Syneresis and Imbibition
5. Disinfection of impression
6. Stress and strain
7. Polymerization cycles
8. Induction casting machine

**Q P Code: 205002**

**Section B – Conservative Dentistry**

**Marks: 50**

### **Essay**

**(14)**

1. Discuss in detail about classification, composition and properties of composite resins. Add a note on acid etching (2+3+5+4)

### **Short essays**

**(2x8=16)**

2. Classify dental waxes. Explain in detail about inlay casting wax (3+5)
3. Write in detail about setting reaction of high copper amalgam

### **Short notes**

**(5x4=20)**

4. Tarnish and corrosion
5. Pulp capping agents
6. Properties of casting alloys
7. Gold foil
8. Miracle mix

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