

**BACHELOR OF DENTAL SURGERY (2008 COURSE)**  
**SECOND - B.D.S. SUMMER : 2022**  
**SUBJECT : DENTAL MATERIALS**

Day : Saturday

Time : 09:00 AM-12:00 PM

Date : 05-11-2022

S-5756-2022

Max. Marks : 70

**N. B. :**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.
- 4) Draw neat and labelled diagrams **WHEREVER** necessary.

**SECTION - I**

**Q. 1 Write Essay on – (ANY ONE) (10)**

Classify Dental ceramics. Discuss various methods of strengthening dental ceramics.

**OR**

What are the ideal requirements of dental base resins? Enumerate compositions and curing cycles of heat cure denture base resin.

**Q. 2 Write short Essay (ANY THREE) (15)**

- a) Laminate technique of impression making
- b) Discuss Ductility and Malleability
- c) Classify dental implants and enumerate Bio-materials used for Dental implants
- d) Phosphate Bonded Investment material

**Q. 3 Answer the following: (ANY FIVE) (10)**

- a) Enumerate separating medium in Dentistry
- b) Pickling
- c) Casting ring liner
- d) Define Genotoxicity, carcinogenicity
- e) Acid-Etch technique
- f) Desirable properties of Dental wax

**SECTION - II**

**Q. 4 Write Essay on – (ANY ONE) (10)**

Write in detail composition, classification and setting reaction of GIC.

**OR**

Enumerate compositions and classification of alby powder. Explain setting reaction of high copper amalgam alloys.

**Q. 5 Write short Essay (ANY THREE) (15)**

- a) Manipulation of compomers
- b) Mercury toxicity
- c) Classify bases and liners
- d) Classification of alloy powder

**Q. 6 Answer the following: (ANY FIVE) (10)**

- a) What is creep?
- b) Enumerate Esthetic restorative material
- c) Uses of zinc-oxide Eugenol cement
- d) Objectives of trituration
- e) Fillers in composite resins
- f) Types of GIC

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