

**SECOND YEAR B.D.S. DEGREE EXAM  
PAPER III – DENTAL MATERIALS**

*Q.P Code: 544173*

**Time: 180 Minutes**

**Maximum: 70 Marks**

**I. Elaborate on:**

**(2 x 10 = 20)**

1. Classify gypsum products. Elaborate how they differ in physical structure, manufacture and manipulation for dental use.
2. Write the composition of Glass ionomer cement? Explain its setting reaction and various clinical applications.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Imbibitions and syneresis.
2. Applications for dental ceramics.
3. Frozen slab technique.
4. Strain hardening.
5. Phosphate bonded investments.
6. Hue, value and chroma.
7. Enumerate the steps in dental casting.
8. Brazing.
9. Mercury hazards.
10. Trituration.

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