

# Question Paper

Exam Date & Time: 16-Jan-2023 (02:15 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND BDS DEGREE EXAMINATION – JANUARY 2023

**SUBJECT: DENTAL MATERIALS**  
(REGULAR BATCH)

Marks: 70

Duration: 165 mins.

**Answer all the questions.**

- 1) Classify impression materials. Discuss in detail about the composition, setting reaction, advantages, disadvantages and uses of irreversible hydrocolloid impression material.  
(2+2+2+1½+1½+1 = 10 marks)
  
- 2) Define luting. Enumerate ideal requirements of dental luting cements. Give the composition and setting reaction of glass ionomer cements. Illustrate the reasons for biocompatibility of glass ionomer cements.  
(1+2+2+2+3 = 10 marks)
  
3. **Write short notes on:**
  - 3A) Ductility and Malleability. (4)
  - 3B) Solid solutions. (4)
  - 3C) Measurement of color. (4)
  - 3D) Manufacturing of dental gypsum products. (4)
  - 3E) Tissue conditioners. (4)
  - 3F) Acid etching technique. (4)
  - 3G) Delayed expansion in dental amalgam. (4)
  - 3H) Cohesive and non-cohesive gold. (4)
  - 3I) Manipulation of inlay pattern wax. (4)
  - 3J) Sensitization and stabilization of stainless steel. (4)

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