

MANIPAL UNIVERSITY
SECOND BDS DEGREE EXAMINATION – JUNE 2015
SUBJECT: DENTAL MATERIALS (ESSAY)

Friday, June 26, 2015

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

Answer ALL the questions:

1. Classify dental impression materials. Give the composition, setting reaction, merits, demerits and uses of irreversible hydrocolloid impression materials.

(2+2½+2½+1+1+1 = 10 marks)

2. Discuss in detail about the various methods of strengthening of dental ceramics.

(10 marks)

3. **Write short notes on:**

- 3A. Solid solutions
- 3B. Modulus of elasticity
- 3C. Galvanic corrosion
- 3D. Measurement of setting times of gypsum products
- 3E. Internal porosities in heat cure acrylic denture base materials
- 3F. Delayed expansion in dental amalgam
- 3G. Acid etching technique
- 3H. Solidification shrinkage porosities in dental casting
- 3I. Cohesive and non-cohesive gold
- 3J. Ni-Ti orthodontic wire

(4 marks × 10 = 40 marks)

