

MANIPAL UNIVERSITY**SECOND BDS DEGREE EXAMINATION – JUNE 2012****SUBJECT: DENTAL MATERIALS (ESSAY)
(NEW REGULATION)**

Saturday, June 23, 2012

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

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

(1+3+2+2+1+1 = 10 marks)

2. Describe the ideal requisites of dental luting cements. Give the composition, setting reaction and biological considerations of glass ionomer cement.

(3+2+2+3 = 10 marks)

3. Write short notes on:

- 3A. Curing cycles of heat activated acrylic denture base materials.
3B. Measurement of setting time of gypsum products.
3C. Wetting and contact angle.
3D. Modulus of elasticity.
3E. Coefficient of thermal expansion.
3F. Polishable composites.
3G. Strengthening of dental ceramics by introduction of residual compressive stresses.
3H. Investment soldering technique.
3I. Phosphate bonded investment material.
3J. Mat gold.

(4×10 = 40 marks)

