

MANIPAL UNIVERSITY

SECOND BDS DEGREE EXAMINATION – NOVEMBER 2011

SUBJECT: DENTAL MATERIALS (ESSAY)
(NEW REGULATION)

Saturday, November 26, 2011

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

1. Classify denture base materials. Compare heat cure with cold cure denture base resins. Write about porosities in denture bases.

(2+4+4 = 10 marks)

2. Classify ceramics based on firing. Write about chemical tempering, thermal tempering and transformation toughening in ceramics.

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

3. Write short notes on:

3A. Knoop hardness tester.

3B. Phase diagram.

3C. Colour and measurement.

3D. Classification of impression materials with examples.

3E. Failures and causes of alginate impression.

3F. Acid etching.

3G. Composition, manipulation and setting reaction of Polycarboxylate cement.

3H. Composition and properties of phosphate bonded investment.

3I. Mat gold.

3J. Casting machines.

(4 × 10 = 40 marks)

