

MANIPAL UNIVERSITY**SECOND BDS DEGREE EXAMINATION – JULY 2016****SUBJECT: DENTAL MATERIALS (ESSAY)**

Friday, July 22, 2016

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ Answer ALL the questions:

1. Classify gypsum products. Describe the measurement and various factors affecting the setting times of gypsum products.

(2+4+4 = 10 marks)

2. State the ideal requisites of luting cements. Describe the composition, properties and uses of zinc polycarboxylate cement.

(3+2+4+1 = 10 marks)

3. Write short notes on:

- 3A. Coefficient of thermal expansion
3B. Coring and homogenization heat treatment
3C. Ductility and Malleability
3D. Manipulation of reversible hydrocolloids
3E. Tissue conditioners
3F. Ceramic and ceramic – coated implant systems
3G. Curing lamps
3H. Ethyl silicate bonded investment
3I. High copper amalgam alloys
3J. Stainless steel orthodontic wires

(4 marks × 10 = 40 marks)

