

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND BDS DEGREE EXAMINATION – DECEMBER 2017
SUBJECT: DENTAL MATERIALS (ESSAY)

Friday, December 22, 2017

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ **Answer ALL the questions:**

1. Write in detail about macro and micro hardness testing methods used for evaluating surface hardness of Dental Materials.

(5+5 = 10 marks)

2. Classify amalgam alloys. Explain the manufacturing of lathe cut and spherical amalgam alloy powders. Add a note on Eames minimal mercury technique.

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

3. **Write short notes on:**
 - 3A. Setting expansion of gypsum products
 - 3B. Composition and gelation reaction of irreversible hydrocolloids
 - 3C. Tissue conditioners
 - 3D. Eutectic alloys
 - 3E. Wetting and contact angle
 - 3F. Glass cermet cement
 - 3G. Light curing lamps
 - 3H. Localized shrinkage porosity
 - 3I. Mat gold
 - 3J. Ni – Ti orthodontic wire

(4 marks × 10 = 40 marks)

