Reg. No.				
110g. 110.				

MANIPAL UNIVERSITY

SECOND BDS DEGREE EXAMINATION – NOVEMBER 2013

SUBJECT: DENTAL MATERIALS (ESSAY) (NEW REGULATION)

Monday, November 25, 2013

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

1. What are gypsum products? Explain the chemistry of setting, methods of measuring the setting times and manipulative variables affecting the setting times of gypsum products.

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

2. Describe the manufacturing of lathe - cut amalgam alloy powder. Give the composition, amalgamation reaction, and properties of high copper amalgam alloys.

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

3. Write short notes on:

3A. Binary solid solutions.

3B. Coefficient of thermal expansion.

3C. Factors affecting cutting efficiency of dental burs.

3D. Manipulation of reversible hydrocolloids.

3E. Wetting and contact angle.

3F. Cavity varnish.

3G. Curing lamps.

3H. Heat treatment of gold casting alloys.

3I. Metallic implant materials.

3J. Sprue former.

 $(4 \times 10 = 40 \text{ marks})$