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**MANIPAL UNIVERSITY**  
**SECOND BDS DEGREE EXAMINATION – JUNE 2014**  
**SUBJECT: DENTAL MATERIALS (ESSAY)**

Monday, June 23, 2014

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

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1. Classify impression materials. Give the composition, setting reaction, merits, demerits and uses of zinc oxide eugenol impression paste.

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

2. Define composite. Write in detail about the composition of dental composite resins.

(10 marks)

3. **Write short notes on:**

3A. Impact strength

3B. Work hardening of metals

3C. Stress and strain

3D. Resilient liners

3E. Impression plaster

3F. Metal-ceramic bonding

3G. Metal modified glass ionomer cements

3H. Spot welding

3I. Investing of wax pattern

3J. Gold foil

(4 marks × 10 = 40 marks)