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## MANIPAL UNIVERSITY

SECOND BDS DEGREE EXAMINATION – NOVEMBER/DECEMBER 2015

SUBJECT: DENTAL MATERIALS (ESSAY)

Friday, December 04, 2015

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ **Answer ALL the questions:**

1. Define stress and strain. With the help of stress-strain graph, explain with dental significance of yield strength, modulus of resilience and toughness. Add a note on fatigue strength.

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

2. Classify elastomeric impression materials. Give the composition, setting reaction, advantage and disadvantage of addition polysilicone elastomer. Write briefly on Reline technique of impression making.

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

3. **Write short note on:**

3A. Cavity varnish and liner

3B. Metal modified glass ionomer cement

3C. Work hardening

3D. Proportioning of Mercury and Alloy in silver amalgam

3E. Comparison of Light and Chemical cure composites

3F. Porosities in denture base resins

3G. Welding

3H. Glazing of ceramic jacket crown

3I. Accelerator and Retarder in Gypsum products

3J. Causes and remedies for rough surface and fins in dental gold alloy castings

(4 marks × 10 = 40 marks)

