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## MANIPAL UNIVERSITY

### SECOND BDS DEGREE EXAMINATION – NOVEMBER 2012

#### SUBJECT: DENTAL MATERIALS (ESSAY) (NEW REGULATION)

Monday, November 26, 2012

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

1. Define stress and strain. Explain with example modulus of resilience, impact strength and fatigue strength.

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

2. Classify dental cements according to their applications. Give the composition and manipulation of zinc phosphate cement.

(5+3+2 = 10 marks)

**3. Write short notes on:**

3A. Galvanic corrosion.

3B. Annealing heat treatment of work hardened metals.

3C. Impression making using agar.

3D. Plaster of Paris.

3E. Steel and Tungsten carbide bur.

3F. Composition and properties of hybrid composites.

3G. Castable ceramics.

3H. Processing waxes.

3I. Removal of wax in casting procedure.

3J. Fluxes and antfluxes in soldering.

(4×10 = 40 marks)

