

**FEBRUARY 2008**

**[KS 654]**

**Sub. Code : 4133**

**II. Write short notes on : (10 × 5 = 50)**

**FIRST B.D.S. DEGREE EXAMINATION.**

(1) Requirement of metal ceramic alloy.

(2) Karat and fineness.

(Modified Regulations – III)

(3) Electrolytic polishing.

**Paper III — MATERIALS USED IN DENTISTRY**

(4) Modified zinc oxide eugenol cement.

**Q.P. Code : 544133**

(5) Casting ring liners and their functions.

**Time : Three hours**

**Maximum : 100 marks**

(6) Hygroscopic expansion.

**Descriptive : Two hours and  
forty minutes**

**Descriptive : 80 marks**

(7) Requirement of solder.

**Objective : Twenty minutes**

**Objective : 20 marks**

(8) Impression waxes.

**Answer ALL questions.**

(9) Chrome cobalt alloy.

(10) Dual-cured composites.

**I. Essay :**

(1) Write in brief about the setting reaction of both low and high copper amalgam alloy. What are the phases formed during the reaction with a note on factors effecting its strength. (15)

(2) Mention the composition and the role of each ingredient of heat cure denture base resin. Describe its properties. (15)

August 2008

[KT 654]

Sub. Code: 4133

**FIRST B.D.S DEGREE EXAMINATION**

**(Modified Regulations – III)**

**Paper III– MATERIALS USED IN DENTISTRY**

***Q.P. Code: 544133***

**Time: Three hours**

**Maximum: 100 Marks**

**ANSWER ALL QUESTIONS**

**I. Essays:**

**2 x 20 = 40 Marks**

1. Define and classify impression materials. Give the ideal requirements of impression materials. Add a note on Zinc Oxide Eugenol impression paste.
2. Give the composition and biological properties of Glass ionomer cement. Explain its bonding action to the enamel and dentin. Add a note on the recent modifications of glass ionomer cement.

**II. WRITE SHORT NOTES ON:**

**10 X 6 = Marks**

1. Implant materials and Types of implants.
2. Hybrid composite.
3. Cavity liners.
4. Polishing agents.
5. Eutectic alloys.
6. Shape memory alloy.
7. Stages of polymerization.
8. Modulus of elasticity.
9. Soldering.
10. Porosity of alloys.