

FEBRUARY 2008

[KS 654]

Sub. Code : 4133

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

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

Descriptive : Two hours and
forty minutes

Descriptive : 80 marks

Objective : Twenty minutes

Objective : 20 marks

Answer ALL questions.

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)

- (1) Requirement of metal ceramic alloy.
- (2) Karat and fineness.
- (3) Electrolytic polishing.
- (4) Modified zinc oxide eugenol cement.
- (5) Casting ring liners and their functions.
- (6) Hygroscopic expansion.
- (7) Requirement of solder.
- (8) Impression waxes.
- (9) Chrome cobalt alloy.
- (10) Dual-cured composites.

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.
-